UNITED STATES DISTRICT COURT WESTERN DISTRICT OF NEW YORK

DOUGLAS J. HORN and CINDY HARP-HORN,

Plaintiffs,

-against-

Civil Action No. 15-cv-701 FPG/MJR

MEDICAL MARIJUANA, INC., DIXIE ELIXIRS AND EDIBLES, RED DICE HOLDINGS, LLC and DIXIE BOTANICALS,

Defendants.

----X

805 Third Avenue New York, New York

December 12, 2017 10:06 A.M.

EXAMINATION BEFORE TRIAL OF DR. CINDY ORSER, an Expert Witness appearing on behalf of the Defendants herein, taken pursuant to Notice, and held at the above time and place before Terri Fudens, a Stenotype Reporter and Notary Public of the State of New York.

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 1
 2
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           BY: HANOCH SHEPS, ESQ.
19
20
21
22
23
24
25
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3
 1
 2.
 3
                    FEDERAL STIPULATIONS
 4
 5
            IT IS HEREBY STIPULATED AND AGREED by and
     between the attorneys for the respective parties
 6
 7
     hereto, that filing, sealing, and certifications
     are hereby waived;
 8
 9
10
            IT IS FURTHER STIPULATED AND AGREED that
11
     all objections, except as to the form of the
12
     question, shall be reserved to the time of the
13
     trial;
14
15
            IT IS FURTHER STIPULATED AND AGREED that
16
     the within Deposition may be signed before any
     Notary Public with the same force and effect as
17
18
     though subscribed and sworn to before this Court.
19
20
21
22
23
24
25
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		4
1		
2	(Orser Exhibit A, Nursing	
3	Article marked for Identification as	
4	of this date.)	
5	(Orser Exhibit B,	
6	O'Shaughnessy's 2013 Article marked	
7	for Identification as of this date.)	
8	(Orser Exhibit C, Orser Report	
9	marked for Identification as of this	
10	date.)	
11	(Orser Exhibit D, EMSL Lab	
12	Report marked for Identification as	
13	of this date.)	
14	(Orser Exhibit E, EMSL Emails	
15	marked for Identification as of this	
16	date.)	
17	(Orser Exhibit F, CannLabs	
18	Certificates of Analysis marked for	
19	Identification as of this date.)	
20	(Orser Exhibit G, Label -	
21	Ingredients marked for Identification	1
22	as of this date.)	
23	(Orser Exhibit H, Label - Dosage	3
24	marked for Identification as of this	
25	date.)	

			5
1		CINDY ORSER	
2		(Orser Exhibit I, Tamar Wise	
3		Post marked for Identification as of	
4		this date.)	
5		(Orser Exhibit J, Magazine	
6		Advertisement marked for	
7		Identification as of this date.)	
8		(Orser Exhibit K, Article-	
9		Marijuana.com marked for	
10		Identification as of this date.)	
11		(Orser Exhibit L, Dixie FAQs	
12		marked for Identification as of this	
13		date.)	
14		(Orser Exhibit M, Hempmedspx	
15		FAQs marked for Identification as of	
16		this date.)	
17		(Orser Exhibit N, Section	
18		1308.11 of CSA marked for	
19		Identification as of this date.)	
20	CINDY	O R S E R, the Expert Witness	
21		herein, having been first duly sworn	
22		by Terri Fudens, a Notary Public of	
23		the State of New York, was examined	
24		and testified as follows:	
25	EXAMINATION	BY	

```
6
 1
                          CINDY ORSER
 2.
     MR. BENJAMIN:
 3
            0
                  Please state your name for the
 4
     record.
 5
            A
                  Cindy Orser.
 6
                  Where do you presently reside?
            Q
 7
                  4507 Apple Way, Boulder, Colorado.
            Α
                  Hi, Dr. Orser.
 8
            Q
 9
                  Good morning.
10
                  Good morning. My name is Jeff
            Q
11
     Benjamin. I am one of the lawyers for Douglas and
12
     Cindy Horn in a lawsuit that they brought against
    Medical Marijuana Inc. and the Dixie Elixirs
13
14
     Company, among others.
15
                  I'm going to be asking you questions
16
     about your report in this case as well as some of
     your educational and experiential background.
17
     at any time you need me to clarify a question or
18
19
    you don't hear it, please ask me to do so. I will
     be happy to do so. Otherwise if I don't hear from
20
21
     you, I'm going to expect an answer.
22
                  (Nodding)
            Α
23
            0
                  You have to answer out loud so the
     court reporter can take down what we're saying.
24
25
            Α
                  Right.
```

```
7
 1
                          CINDY ORSER
 2.
                  Have you ever given a deposition
            O
     before?
 3
            Α
                  Yes.
 5
                  In what case was most recent?
 6
                  It was for one of the employees I
 7
     supervise in Las Vegas who was in a car accident.
 8
                  Was that an employment matter?
            Q
 9
                       It was about his injuries and
10
     whether or not I believed his mental state had
11
     been affected.
12
                  Were there issues of Medical
            Q
13
     Marijuana in that case?
14
            Α
                  No.
15
            Q
                  Does your testimony have anything to
16
     do with Medical Marijuana whatsoever?
17
            Α
                  No.
18
                  And how long ago was that?
            Q
19
            Α
                  A year ago.
20
            Q
                  A year ago. Okay. Was that --
21
            Α
                  About.
22
            Q
                  More or less.
                  Was that a deposition, was that a
23
24
     trial?
25
            Α
                  It was a deposition.
```

```
8
 1
                         CINDY ORSER
 2.
                  Can you tell me the name of that
            Q
 3
     case?
 4
            Α
                  No.
                  Do you know what venue it was in; was
     it in Federal Court, State Court?
 6
 7
            Α
                  It was in Las Vegas. This is very
     common there. They draw out these rear end
 8
 9
     accidents.
10
                  Was your testimony at all with
11
     respect to his mental state being impaired in some
12
     way?
           What was your testimony there?
13
                  Well, basically I did not know him
14
    before the accident, so my testimony was, you
15
     know, you're kind of wasting your time, because I
16
     only know him after the accident, so I can't
17
     comment if he was affected.
18
                  Okay. Was it scientific?
                                             Was your
     testimony in any way scientifically based?
19
20
                       It was just based from his
            Α
                  No.
21
     performance in the lab. So I mean he's my
22
     laboratory director, so his role is analytical
23
     chemistry.
24
                  Other than that, was there anything
            Q
25
     else that you testified in?
```

```
9
 1
                          CINDY ORSER
 2.
            Α
                  A divorce.
 3
            0
                  Did anything in that case have
 4
     anything to do --
 5
                  No, it did not.
 6
                  Other than those two that you
 7
     mentioned, any other testimony by deposition like
     where we're sitting here today?
 8
 9
            Α
                  No.
10
                  How about trial, had you ever
            Q
11
     appeared in court?
12
            Α
                  Only for a divorce.
13
                  How about by affidavit or written
14
     statement? Have you ever offered an affidavit or
15
     statement in support of one or the other sides in
16
     a lawsuit?
17
                  No.
18
                  I mean within the last four years,
     for instance, for a time frame.
19
20
            Α
                  No.
21
                  Where do you currently work today?
22
            Α
                  I have my own consulting company, Big
     Sky Biosystems, so I'm self-employed.
23
24
                  Is that the only employment that you
            Q
25
     have now?
```

```
10
 1
                          CINDY ORSER
 2
                  Well, it's a consulting company, so I
            Α
     have clients that I work for.
 3
 4
                  Are you still with Digipath?
            Q
            A
                  Yes.
 6
                  So Digipath still exists today?
            Q
 7
            Α
                  Yes.
                  What is your position at Digipath?
 8
            Q
                  I'm the chief science officer.
 9
10
                  And how about at Big Sky, what is
            Q
11
     your actual title?
12
            Α
                  President.
                  And your daily functions first at Big
13
14
     Sky, what do you do on a daily basis at Big Sky?
15
                  I perform my consulting duties for my
16
     clients.
                  Can you describe what some of your
17
     consulting duties are at Big Sky?
18
19
            Α
                  Well, my main client is Digipath
            And as their chief science officer, I'm
20
     Labs.
21
     really their spokesperson. So I go and give lots
22
     of presentations. I still supervise 12 employees
     in their flagship testing lab that I built out and
23
     designed in Las Vegas.
24
25
                  I'm helping them move into the state
```

11 1 CINDY ORSER 2. of California with testing -- cannabis testing labs, so I'm identifying key candidates, working 3 4 with vendors to get better deals on analytical 5 instrumentation, interacting with the construction people who are doing the build-outs. You know, I 6 7 do research under their name and their facility and write scientific publications. I write a 8 monthly blog for them. 9 10 What is the topic of the monthly 11 blog? 12 Α It varies, but it's always cannabis 13 related. 14 What is the relationship then between 15 Big Sky and Digipath? I think you mentioned 16 something, but what is the general relationship between those two companies? 17 18 Well, I mean my consulting contract 19 with Digipath Labs is with Big Sky Biosystems. 20 Digipath itself has its own 21 customers; correct? 22 Α Yes. 23 Q What are the type of customers that Digipath has? 24

Well, they're an independent

25

Α

12 1 CINDY ORSER 2. third-party cannabis testing labs, so their clients are cannabis cultivators and cannabis 3 4 producers in Nevada. 5 And is it fair to say that they send 6 you samples to analyze or test? 7 Α Actually, in Nevada the testing labs go out and collect the samples and bring them back 8 9 to the lab and analyze them. 10 In other words, somebody from 11 Digipath goes out and actually takes the samples? 12 Α Mm-hmm. 13 Okay. If you could tell us briefly 14 about your educational background. Would it help 15 you for me to show you your CV? 16 Α No. 17 What is your educational background? 18 I have a Ph.D. from the University of 19 California at Berkeley in plant science and 20 microbiology. From there I did a post doc at 21 Perdue. I was hired as an assistant professor at 22 the University of Idaho in biochemistry and bacteriology where I was awarded early tenure in 23 24 promotion.

Then I transitioned into biotech.

Ι

25

13 1 CINDY ORSER 2. worked for Molecular Toxicology Company in Boulder 3 developing a transgenic mouse model to estimate 4 human mutation rate. Then I was recruited to become the 5 6 director of scientific affairs for a company in 7 Princeton. During that time I met a group from Washington, D.C. that offered me a position to 8 9 start a bio center division for a defense company. And I worked for them for four and a half years 10 11 where I invented the A technology to measure 12 misfolded proteins, which was pre-onset, and spun out my technology from the defense company and 13 14 started my own firm Add Life. 15 When was that; when did you start Add 0 16 Life? Something like that. 17 2004 or '05. 18 0 Okay. 19 Α Add Life ended spinning out another company called Cell Fire. Cell Fire still exists. 20 21 We acquired technology for the preservation of 22 human platelets. Then I ended up moving back to 23 Colorado. I started another company ASDx Biosystems where we were developing rapid 24

bioassays for measuring bio-threat agents,

25

14 1 CINDY ORSER 2 biological toxins. 3 It was when I had ASDx that I got 4 another call from a headhunter asking me if I 5 would be interested in designing this Cannabis testing lab because of my diagnostic experience. 6 7 When was that? That was in 2014. Also during that 8 time I had -- Big Sky Biosystems existed because I 9 also did a large consulting job for the U.S. Air 10 11 Force Surgeon General on writing a 400-page report 12 on how to modernize diagnostics within the Air 13 Force medical system. 14 That headhunter, was that the entity 15 that brought you to Digipath in 2014? 16 Α Mm-hmm. That's when you started building that 17 lab in Nevada; right? 18 19 Α Right. Well, first I started writing all the protocols, the SOPs. 20 21 Q SOPs meaning standard operating 22 procedures? 23 Α Correct. 24 For what in particular, cannabis Q 25 testing labs?

```
15
 1
                          CINDY ORSER
 2
                  Well, so every -- because we're a
            Α
 3
     certified lab and every protocol -- so every test
 4
     we do, there has to be an SOP. There are usually
 5
     several that detail exactly how that protocol
 6
     should be carried out. For example, potency
 7
     testing.
 8
                       MR. BENJAMIN: Can you read that
                  answer back.
 9
10
                        (The requested portion of the
11
                  record was read back by the
12
                  reporter.)
13
                  When you say certified, who did you
            Q
14
     get certified by?
15
                  The State of Nevada.
16
            Q
                  What is the certification for; is it
     specifically cannabis testing, or is it called
17
18
     something else?
19
            Α
                       It is for being an independent
     third-party cannabis testing lab.
20
21
                  Is that specific to the State of
22
     Nevada?
23
            Α
                  Yes.
24
                  Do you know if that exists in any
            Q
25
     other state today?
```

16 1 CINDY ORSER 2. It meets any state that has a Medical Α 3 Marijuana program. And if it has been mandated 4 that there be testing of the products, then some agency within the state has to take on the 5 6 certification role, and it's usually the Public 7 Health Department. 8 And that's state to state; is that 9 correct? 10 Yes. 11 0 Where at least Medical Marijuana 12 is --13 Well, or retail. Α Either one. Ιt 14 varies by state. 15 Q Okay. But this is all with respect 16 to Medical Marijuana; correct, this certification? 17 But now we also have retail in Nevada, so we're going through that. They're 18 19 combining them. 20 What is the certification? How do 0 21 you get certified? 22 Α You are audited. So an auditor from 23 the Department of Public and Behavioral Health, 24 that's what Nevada calls their health department, so an auditor and a scientist from their 25

17 1 CINDY ORSER 2 department come. They go through all of your documentation, so all of your SOPs they can go in. 3 4 So we have maintained chain of custody. They can pick any sample number and ask to see the raw data 5 6 for that sample number to show that the tests were 7 actually done. Are any other states certified in 8 Q 9 that respect, to your knowledge? 10 Α Yes. 11 0 Today? 12 Α Yes. Colorado has a certification California is just standing up a massive 13 program. 14 You know, most states have some level of 15 that, if there's the requirement for testing the 16 products. How about back in 2012, is that the 17 same -- was Nevada certified in 2012 -- excuse me. 18 19 Α No. 20 Q Was there a certification process in 21 2012. 22 Α Not that I know of. 23 When was the first certification 0 process for cannabis testing ever in the United 24 25 States?

```
18
 1
                         CINDY ORSER
 2.
                  Probably Colorado.
            Α
 3
                  What year was that, to your
            Q
 4
    knowledge?
 5
            Α
                  It's got to be around 2012.
 6
                       MR. BORON: He doesn't want you
 7
                  to guess.
                  I don't know absolutely.
 8
            Α
                  When did the certification process
 9
10
     become instituted in Nevada?
11
            Α
                  2014.
12
                  What is potency testing, as you just
13
     testified to?
14
              It refers to the analysis of the
15
     cannabinoids.
16
            Q
                  Can you explain, for the record, what
     a cannabinoid is?
17
                  So cannabinoids are the unique
18
19
    molecules that the cannabis plant makes that
20
     everybody is interested to exploit. THC, CBD as
21
     an example. In Nevada we test for 11
    Cannabinoids.
22
23
                  Can you just tell us what those
     acronyms are? For the clarity of the record, what
24
25
     is CBD and what is THC?
```

19 1 CINDY ORSER 2. CBD is cannabidiol and THC is Α 3 tetrahydrocannabinol. 4 So a subset of the field of cannabis 5 testing is potency testing. Is that a fair 6 statement? 7 Α Yes. Currently you test for 11 different 8 Cannabadials; correct? 9 10 Cannabinoids. 11 0 Cannabinoids. At the risk to our 12 order, can you give us a brief summary of the difference, say, between those two that you 13 14 mentioned, CBD and THC, without getting 15 hypertechnical? 16 Okay. Well, the biggest difference is the receptors they bind to in the human body 17 18 and then resulting cascade of events. 19 simplistically, THC is the psychoactive, because 20 it binds to the CB1 receptor, which are in your 21 brain. Whereas CBD actually is an allosteric 22 inhibitor, so it actually changes the receptor so 23 THC can't bind. 24 So CBD has a lot of the same benefits 25 in terms of anti-inflammatory and analgesic, but

```
20
 1
                          CINDY ORSER
 2
     it's not psychoactive.
                  Like THC; correct?
            Α
                  Yes.
                  Are there federal guidelines for
     cannabis testing?
 6
 7
            Α
                  No.
                  To your knowledge, are there proposed
 8
     guidelines or regulations for cannabis testing
 9
10
     from a federal level?
11
                  Not that I'm aware of.
12
            0
                  Going back to your educational
     background, I thank you for listing your
13
14
     professional experience. Let's go back quickly to
15
     your educational background.
16
                  Your BS was in general botany; is
     that correct?
17
18
                  Mm-hmm.
            Α
                  Do you have a major or a minor in
19
            0
20
     that field?
21
                  My minor was philosophy.
22
            Q
                  Good mix.
23
                  You mentioned earlier your graduate
    work at UC Berkeley?
24
25
            Α
                  Mm-hmm.
```

```
21
                          CINDY ORSER
 1
 2.
                  Was that in plant physiology
            Q
 3
     specifically?
 4
                  It was actually plant microbiology.
 5
                  You might have mentioned this before,
     but what was your postdoctorate research at
 6
 7
     Purdue?
 8
                  The same. Biology.
            Α
                  Prior to your professional
 9
10
     experience, did any of your education involve
11
     courses in pharmacology?
12
            Α
                  No.
13
                  Did any of your education involve
14
     medicinal chemistry?
15
                  No.
16
            Q
                  How about toxicology; was there
     anything in your education anyway that involved
17
18
     the field of toxicology?
19
            Α
                  No.
20
                  So your education is mainly involving
21
     botany and plant pathology; is that correct?
22
                       MR. BORON: Objection as to
23
                  form.
24
                  Do you understand the question?
            Q
25
            Α
                  I mean my formal degrees, yes.
```

```
22
 1
                          CINDY ORSER
 2
                  Now as to your professional
            Q
     experience, the position at the University of
 3
 4
     Idaho was in bacteriology and biochemistry; is
 5
     that correct?
 6
            Α
                  Yes.
 7
                  Did any of your teaching or research
            0
     there have anything to do with testing marijuana?
 8
 9
            Α
                  No.
10
                  Or anything with the pharmacological
            Q
11
     effects of marijuana?
12
            Α
                  No.
13
                  How about the safety of marijuana?
14
            A
                  No.
15
                  Those are things that you test for
16
     now; correct?
17
                  Right.
            Α
18
                  Your position at ZenoMetrics where
19
     you developed -- I'm taking it from your CV now,
20
     molecular assays to assess genetic mutation rates,
21
     is that a fair statement?
22
            Α
                  Mm-hmm.
23
                  Were those used for genetic
            Q
     toxicology assessments?
24
25
            Α
                  Yes.
```

```
23
 1
                          CINDY ORSER
 2.
                  And not for other types of
            Q
 3
     assessments; correct?
 4
                       MR. BORON: Objection as to
                  form.
 6
                  Do you understand that question?
            Q
 7
                  Well, it's a broad question.
            Α
                  Like, for instance, LD50 assessments,
 8
            Q
     do you know what LD50 assessments are?
 9
10
            Α
                  Yes.
11
                  Those were specifically for genetic
12
     toxicology, correct, the assays that were used at
13
     Zeno Metrics?
14
                  They were for genetic toxicology, but
15
     the LD50s were part of the studies.
16
            Q
                  Fair enough. How about any of those
     assays at Zeno Metrics that you were involved
17
    with, did that have anything to do with marijuana
18
19
     testing?
20
            Α
                  No.
21
                  What was your role at New Cycle
22
     Therapy?
                  My role was to secure federal funding
23
            Α
     and to expand the utility of the company's
24
25
     technology outside of cleaning up brownfields and
```

24 1 CINDY ORSER 2. depleted uranium sites for the military. 3 0 That had nothing to do with cannabis 4 and marijuana; correct? 5 Α No. 6 What is a nutraceutical product? Q 7 It's similar to dietary supplements. Α Did you develop neutrasuitical 8 Q 9 products? 10 Α Yes. 11 0 What was that all about? I don't 12 think you mentioned that. What was the 13 development? What did it involve? 14 So plants, certain species of plants 15 can hyper-accumulate heavy metals that would be 16 toxic for any other organism. So you can use that ability to develop novel products. 17 18 So we made a transgenic Brassica 19 plant that had a methyltransferase gene in it so 20 we could modify Solanum. So Solanum is a heavy 21 metal that can substitute for one of the amino 22 acids, and it's known to have anticarcinogenic 23 activity. 24 But again, nothing having to do with 25 cannabis; correct?

		25
1		CINDY ORSER
2	А	No.
3	Q	Were those having anything to do with
4	oncology whe	en you were there?
5	А	Anticarcinogenic activity.
6	Q	Arete Associates was also on your CV.
7	Do you remember that?	
8	А	Arete.
9	Q	You said that it involved biosensor
10	instrument f	for the Department of Defense; is that
11	correct, dev	relopment?
12	А	I was hired to start a biosensor
13	division.	
14	Q	But nothing there had anything to do
15	with marijua	ana testing; right?
16	А	Right.
17	Q	Or cannabis.
18		You mentioned AddLife. You started
19	AddLife; is	that correct?
20	A	Yes.
21	Q	That was developing molecular
22	diagnostic k	tits, is that generally what happened
23	at AddLife?	
24	A	We were developing assays to screen
25	the human bl	ood supply for misfolded proteins,

26 1 CINDY ORSER 2 like prion proteins. But nothing there had anything to do 3 0 4 with marijuana analysis or product testing; right? 5 No. Α 6 ASDx Biosystems, you mentioned that; 7 correct? 8 Α Yes. 9 Were any of those assays developed 10 having to do with marijuana, measuring Marijuana? 11 Α No. 12 In the State of Montana as a research Q program director, what were the fields of research 13 14 that you were involved with? 15 I oversaw all the research programs 16 under the Commissioner of Higher Education. was vast subject matter. 17 18 But on the issue of marijuana --Q 19 There was no marijuana. 20 So in your position at Big Sky now, 21 can you describe what consulting services Big Sky offers to its customers? 22 23 I mean you already asked me Α Yes. 24 that. 25 Q I think we talked about Digipath.

27 1 CINDY ORSER 2. But if you can tell us about Big Sky, what were the consulting services? 3 4 Α My main client is Digipath, so we 5 covered that. I basically oversee their whole program of cannabis testing. I also consult for 6 7 cultivation facilities in Colorado to provide advice on how to pass microbial testing 8 9 requirements. I give them advice if they failed 10 for pesticides, and I interface with the Denver 11 city attorney on those issues. 12 I'm involved in another lawsuit in Colorado, cannabis for a pesticide matter. 13 14 everything Big Sky does really for the last five 15 years has been cannabis centered. 16 Q What is the lawsuit that you mentioned; what does that have to do with? 17 18 Pesticide matter. Who were the parties in that? 19 that a government action? 20 21 It's -- no. It's a cultivation 22 facility suit, a testing lab for negligence in finding pesticides in their product. 23 24 What's the name of that case? Q 25 Α Gobi versus HGS, or HGS versus Gobi,

```
28
 1
                          CINDY ORSER
 2.
     I quess.
 3
                  How do you spell Gobi?
            Q
 4
            Α
                  G-O-B-I.
                  Did you give testimony in that case?
            Q
 6
                  Not yet.
            Α
 7
                  Do you know how far along that case
            0
     is?
 8
                  They've given me the first set of
 9
10
     documents, and I'm writing my opinion. And now
     they've -- they are in discovery, so they've asked
11
12
     for additional information from Gobi.
13
                  Are you an expert for the cultivator
14
     or for the other party you mentioned?
15
                  For the cultivator.
16
                  Is it fair to say that the percentage
     of your work is 100 percent in the cannabis
17
     diagnostics industry, or is it some lesser
18
19
     percent?
20
            Α
                  No.
                       It's a hundred percent.
21
                  And your work in Cannabis
22
     diagnostics, is assay development or is it
     strategic policy?
23
24
                  Both.
            Α
25
            Q
                  Do you interact with the government
```

29 1 CINDY ORSER 2 officials with respect to your work? 3 Α Yes. 4 Is that specifically the Nevada Q 5 Department of Behavioral Health? 6 And also Nevada Department of 7 Taxation, which now oversees the programs. also -- I'm starting to interact with agencies in 8 California, and I'm on the Colorado Lab Counsel. 9 10 Are you here representing Big Sky, or 11 Digipath or both? 12 Α Representing them? 13 Well, your report says Big Sky on it. Q 14 Α Yes. 15 Why doesn't your report say Digipath, 16 for instance? Well, because this doesn't relate to 17 Digipath. I mean this isn't their -- Digipath 18 19 doesn't get involved in lawsuits. 20 Big Sky is not an entity that tests 21 cannabis though; is that correct? 22 Α Correct. 23 You're a principal at Big Sky. Q you also a principal at Digipath? 24 25 Α What do you mean by principal?

```
30
 1
                          CINDY ORSER
 2
                  Do you have an ownership interest in
            Q
 3
     Digipath?
 4
            Α
                  It's a public company.
                  Are you on the board of Digipath?
            Q
 6
            Α
                  No.
 7
                  Digipath tests cannabis plant
     material; correct?
 8
 9
            Α
                  Yes.
10
                  And to be more specific, it's the
11
     cannabis sativus L material; is that a fair
12
     statement? Is that correct?
13
                  The speises, yes.
14
                  The species of plant; correct?
            Q
15
            Α
                  Mm-hmm.
16
            Q
                  Does Digipath also test compounds in
     formulated products?
17
18
            Α
                  Yes.
19
                  So is it fair to say that you're
     familiar with the Dixie product that's alleged
20
21
     here; correct?
22
            Α
                  I've never seen it.
23
                  Have you ever tested Digipath?
            Q
24
            Α
                  No.
25
            Q
                  Is it fair to say that the product at
```

31 1 CINDY ORSER 2. issue here is a formulated cannabis product? Hemp product. 3 Α 4 0 So then the question is does Digipath test for cannabinoid compounds in formulated 5 6 products? 7 Α Yes. Does it test for THC and metabolites 8 9 in human samples? 10 Α No. 11 0 It tests for those in just simply 12 plant samples; is that correct? 13 A Correct. 14 Other than the certifications in 15 Nevada that you mentioned, are there any other 16 accreditations that Digipath has? 17 No. 18 So from your education and your 19 professional experience, none of those have 20 involved the interpretation of marijuana constituents in human tissues; isn't that correct? 21 22 I've been asked to interpret toxicology reports for the judge's office in Las 23 24 Vegas. 25 Q On what subject?

32 1 CINDY ORSER 2. To give my opinion whether or not the Α individual would have been impaired at the time of 3 4 an accident. Did you write anything for a judge? Q 6 It was verbal. 7 Was there a record given in that Was a record taken? In other words, was 8 case? 9 there a court reporter taking down what you said? 10 I don't think so. 11 Was there a case that that was Q 12 associated with? 13 Yes, it was a case. 14 What was that case name? Q 15 Α I don't know. It was a woman who ran 16 her minivan onto the sidewalk on the strip and ended up killing a young mother. 17 18 How long ago was that? Q 19 Maybe two, two and a half years. 20 What did you analyze in that matter 21 that formed the basis of your opinion as to the 22 impairment? 23 I discussed the various metabolites Α and which metabolite is psychoactive and which 24 25 isn't.

```
33
 1
                          CINDY ORSER
 2
                         Did you review any sort of
            Q
                  Okay.
 3
     blood or urine testing?
 4
            Α
                  Yes.
                  Which one?
            Q
 6
            Α
                  Blood.
 7
                  And you were looking for THC in the
    blood test?
 8
 9
                  And metabolites, yes.
10
                  In that case, was there the existence
11
     of THC in the blood sample that you reviewed?
12
            Α
                  It wasn't THC. There was a little of
     the 11 hydroxy, which is psychoactive.
13
14
                  A completely different substance,
15
     isn't that correct, than THC?
16
                  It's the first metabolite.
17
                  The first metabolite in marijuana?
18
                  The first metabolite in the human
19
           From THC it goes to 11 hydroxy, THC.
20
                  Was the issue in that case a
            Q
21
    marijuana cigarette; was that the allegation, that
22
     there was --
23
                  Marijuana use.
            Α
24
                  Marijuana use. But in that case, was
            Q
25
     there anything you reviewed as to a formulated
```

```
34
 1
                         CINDY ORSER
 2
     product?
            Α
                  No.
 4
                  Do you have any specific training or
            Q
 5
     experience in drug product formulation?
                  Yes, I have done some formulation.
 6
 7
                  Can you describe for me what that
 8
     was?
 9
                  A company called O.pen Vape in
    Denver, Colorado. I did their first formulation
10
11
     for Vape Pens, v-A-P-E, Vape cartridges.
12
                  Is that related at all to Cannabis
            Q
13
     testing?
14
                  Not directly.
15
                  So what chemicals go into a Vape pen
16
     or what substances go into a Vape pen that you
     used to formulate the drug?
17
18
                       MR. BORON: Dr. Orser, when he's
                  asking the question, wait until he
19
20
                  gets to the end of it, because you
21
                  won't exactly know where's he's going
                  with it. Then after he's finished
22
23
                  his question, then you know how to
24
                  begin to answer.
25
            Α
                  Can you repeat the question?
```

```
35
 1
                         CINDY ORSER
 2.
                       (The requested portion of the
 3
                  record was read back by the
 4
                  reporter.)
                       MR. BORON: Objection as to
 6
                  form.
 7
                       MR. SHEPS: I join in the
                  objection.
 8
                  Do you understand the question?
 9
10
                  Right.
                          I do. So the dried cannabis
11
     flower or trim is extracted with some type of
12
     solvent to concentrate the cannabinoids. And this
13
     process results in a very, very, very viscous,
14
     think honey, kind of material. So it has to be
15
     diluted with something to get it into the
16
     cartridge and to also dilute the concentration.
                  Is there any process there where
17
     you're analyzing THC contents?
18
                  Yes, of course. You have to analyze
19
            Α
20
    before and after.
21
                  Okay so what do you do with the THC
22
     content in that process? Is it something that --
23
     is it an extraction process or a dilution, or
24
     something else?
25
            Α
                  To analyze it?
```

```
36
 1
                          CINDY ORSER
 2.
                  Right.
            Q
 3
            Α
                  Yes, you extract it. We use HPLC,
 4
     high pressure liquid chromatography.
 5
                  Is that something for which you
    produce a Certificate of Analysis for?
 6
 7
            Α
                  Yeah.
                  Who are you producing that for, is
 8
 9
     that for O.pen Vape?
10
                  At that time, yes.
            Α
11
                  And is that Certificate of Analysis
            Q
12
     something where you breakdown the CBD content and
13
     the THC content?
14
                  Correct.
            Α
15
            Q
               Any other content in that?
                  Not then. That was five years ago.
16
            Α
                  Okay. So what approximate year was
17
     that; was that 2012, would you say?
18
19
            Α
                  It was five years ago.
20
                  Any more of that experience in drug
            Q
21
     product formulation?
                  I also advised clients of Digipath in
22
23
     formulation.
24
                  Have you ever advised Dixie, any of
            Q
25
     the Dixie companies?
```

	37		
1	CINDY ORSER		
2	A I have not.		
3	Q How about Medical Marijuana?		
4	A No.		
5	Q Can you give me an example of a		
6	company or companies that you advised on that		
7	formulation?		
8	A There's is a company that we've been		
9	working with for almost a year to formulate do		
10	you know those Keurig cup things, the coffee, if		
11	they want to make infused coffee and tea. So		
12	that's been a long big project.		
13	Q How about drug product manufacturing,		
14	are you involved at all in any drug product		
15	manufacturing?		
16	A No.		
17	Q Are you involved at all in controlled		
18	substance manufacturing?		
19	A No.		
20	Q How about drug product labeling		
21	requirements, do you have any training or		
22	experience in that?		
23	A Again, we advise our clients.		
24	Q What do you advise clients on the		
25	subject of labeling, as an example?		

38 CINDY ORSER 1 2. We help them interpret the Nevada Α 3 requirements for labeling. 4 0 What types of clients do you advise 5 on labeling in Nevada? 6 Any of the cultivation clients or Α 7 producers. 8 So you're familiar with the Nevada requirements on labeling for drug products; 9 10 correct? 11 For cannabis products. 12 0 For Cannabis. How about controlled substance labeling, do you have any experience --13 14 Α No. 15 -- or training in that? 16 Α No. 17 MR. BENJAMIN: You started 18 answering again before he got to the 19 end of the question. 20 So in Nevada, you don't advise Q 21 clients on labeling for THC content; is that 22 correct? 23 Α Actually, we do. 24 You do. So the answer to the Q 25 question if you have any experience in controlled

39 1 CINDY ORSER 2 substance labeling is yes; is that right? Well, controlled substance is a 3 Α 4 federal category. I'm only dealing at the state 5 level. Okay. So does Nevada consider THC a 6 7 controlled substance? 8 Not in the state. Not within the Α 9 state. 10 Right. So in terms of controlled 11 substance, does Nevada simply defer to the federal 12 requirements of controlled substances? 13 MR. SHEPS: Objection, but you 14 can answer. 15 Α There's a disconnect between the 16 federal view of cannabis and THC and the state, 28 17 states now. 18 So is it your view that there are 19 28 -- those 28 states don't define THC as a 20 controlled substance? I'm trying to get your 21 answer. 22 MR. BORON: Objection to form. 23 MR. SHEPS: Objection. 24 I'm trying to understand your answer. Q 25 In those 28 states that you

40 1 CINDY ORSER 2. mentioned, is it that those states don't view THC 3 in particular as a controlled substance? 4 MR. SHEPS: Objection, but you can answer. 6 I think each of the states -- it's a 7 state-by-state decision on how they grapple with that disconnection between federal law and state 8 9 law, but I'm not a lawyer. I'm a scientist. 10 I understand that. I'm not asking 11 you for a legal opinion, but I think what I'm 12 trying to understand is your statement that 13 there's a disconnect; correct? 14 Nodding. A 15 Are you saying that there are 16 different definitions state to state as to what a controlled substance is, and we can focus on THC 17 in particular, as opposed to what the federal 18 definition is? 19 20 MR. SHEPS: Objection. 21 MR. BORON: Objection as to 22 form. I don't know really how they -- how 23 Α they reconcile that difference. 24 25 Q So then what has been your experience

```
41
 1
                          CINDY ORSER
 2.
     in advising clients as to controlled substance
 3
     labeling?
 4
            Α
                  None.
 5
                  Didn't you just say that you had some
     advice as to specifically THC labeling for
 6
 7
     clients?
 8
                       MR. BORON: Objection as to
                  form.
 9
10
                       MR. SHEPS:
                                    I join.
11
            Α
                  Correct, at a state level.
12
                  When you gave that advice, were you
            Q
13
     mindful of the federal controlled substance
14
     labeling requirements, or were you thinking more
15
     of the particular state that you were advising in?
16
                       MR. BORON: Objection as to
17
                  form.
18
                       MR. SHEPS: I join in that.
19
            Α
                  I'm strictly interpreting the state
     requirements for labeling of these products.
20
21
                  Who are some clients or a client that
22
     you advised on controlled substance labeling in,
23
     say, Nevada for instance?
24
                       MR. SHEPS: Objection.
25
            Α
                  Well, we keep going back to this, but
```

42 1 CINDY ORSER 2. I mean nowhere in the Nevada rules and regulations does it specifically refer to cannabis as Schedule 3 4 1. 5 Okay. But you stated on the record, Q 6 and correct me if that's not true, that you do 7 advise clients in a specific state as to controlled substance labeling? 8 No. For THC, for cannabinoids. 9 it's really just a mathematical issue. A lot of 10 11 our clients don't understand algebra. 12 Q My question was simply to give me an example of a client that you've given that advice 13 14 to? 15 Α Silver State. 16 Q Are they a lab? No. We're the lab. Digipath is 17 No. 18 the lab. 19 It's Digipath? Q 20 Α Yes. 21 Q Silver State is a cultivator? 22 Α They're fully integrated, so that means they have cultivation, production and 23 24 dispensary. 25 Q All right. Thank you. How about any

```
43
 1
                          CINDY ORSER
 2
     training or experience in the distribution of
     controlled substances?
 4
                  Is that a question?
            Q
                  Yes.
 6
                  No experience.
 7
                  Still on your CV, if you can remember
            0
     back to your Branson contract section, are there
 8
 9
     any grants or contracts that relate to the
10
     analysis and interpretation of marijuana
11
     substances in formulated products?
12
            Α
                  No.
13
                  The same question as to patents. Any
14
     patents on the analysis or interpretation of
15
     marijuana?
16
            Α
                  No.
17
                  Are there any research publications
18
     that you have made with respect to the analysis or
19
     interpretation of marijuana substances in
20
     formulated products?
21
                       MR. BORON: Objection to the
22
                  form.
23
                       MR. SHEPS: I join in that.
24
            Α
                  No.
                                    When you say made,
25
                       MR. BORON:
```

```
44
                          CINDY ORSER
 1
 2.
                  are you asking whether she has
                  written or published?
 3
 4
                       MR. BENJAMIN: Yes.
                  Did you understand my question to say
 5
            Q
            Have you written anything regarding the
 6
 7
     analysis or interpretation of marijuana
     substances?
 8
 9
                  Just blogs.
10
                  Any particular blog that you can
11
     name?
12
            Α
                  No.
13
                  In other words, a marijuana.com blog
14
     or something else?
                  No. They're on Digipathlabs.com.
15
            Α
                                                       My
16
     blogs are all there.
17
                  Okay. I will hand you what's been
     marked as Orser -- Exhibit Orser A. I have a copy
18
     for counsel.
19
20
                  If you could take a look at that,
21
     please.
22
            Α
                  Okay.
23
                  Have you had a chance to familiarize
            Q
     yourself with that exhibit?
24
25
            Α
                  Yes.
```

```
45
 1
                          CINDY ORSER
 2.
                  What is that exhibit?
            Q
                  It's an article I wrote for a
 3
            Α
 4
     cannabis nursing magazine back in 2016.
 5
                  Was that on the Digipath blog?
            Q
 6
                  No. This is in a magazine.
 7
                  So this was written -- you wrote this
     in 2016 for nurses and health care providers;
 8
 9
     correct?
10
                  Specifically nurses.
11
                  Was this a marketing piece for
            Q
12
     Digipath as well as the information that is
13
     contained in it?
14
                  Their logo is on it.
            Α
15
                  Is that a yes?
16
                  Well, it depends upon your
     interpretation. I mean since their logo is here,
17
     I would say yes.
18
19
                  I mean you wrote this article;
20
     correct?
21
                  Yes.
22
                  You wrote this article in part to
     attract clients for Digipath?
23
24
                        I was asked to write this
            Α
                  No.
     article.
25
```

```
46
 1
                          CINDY ORSER
 2.
                  By whom?
            Q
 3
            Α
                  The magazine.
 4
            Q
                  Was this article written at all for
 5
    political purposes?
 6
            Α
                  No.
 7
                       MR. BORON: Objection as to
                  form.
 8
                  Why did they ask you to write this
 9
10
    article?
11
                  There's a huge lack of information
12
     out there for the public and nurses who were
     interested in being able to advise their patients.
13
14
     This is sort of a primer.
15
                  It's a primer on what?
16
                  On the need for standardization and
     testing of cannabis products.
17
18
                  So it's fair to say this is -- this
19
     is technical or practice related to what's done at
20
     Digipath; correct?
21
            Α
                  Right. It's about the role of a
22
     testing lab.
23
                  It's not a peer reviewed article;
24
     correct?
25
            Α
                  It was not peer reviewed.
```

```
47
                          CINDY ORSER
 1
 2.
                  Do you know if Digipath got any new
            O
     customers from this article? In other words, did
 3
 4
     somebody call and say saw your article. It looks
 5
     great. Can you do some testing for us?
 6
                       MR. BORON: Objection as to
 7
                  form.
                       MR. SHEPS: I join in that.
 8
                  I don't believe so.
 9
10
                  Did you ever offer this article to
11
     anybody as sort of an introduction to the services
12
     at Digipath?
13
                  I did not.
            Α
14
                  Who owns Digipath?
            Q
15
            Α
                  It's public.
16
            Q
                  Do you know who the officers are at
     Digipath?
17
18
                  Of course.
            Α
19
            0
                  Can you tell me who they are?
20
                  Joe Bianco is the CEO, Todd Denkin is
            Α
21
     the COO, and Todd Peterson is the CFO.
22
                  Do you belong to any professional
     organizations that are associated with forensics,
23
24
     science or toxicology?
25
            Α
                  No.
```

```
48
 1
                          CINDY ORSER
 2
                  Take a look, please, at the
            Q
 3
     introductory paragraph of that article that is
 4
     Orser A.
 5
                  Do you see the introductory
     paragraph?
 6
 7
                  The first paragraph?
            Α
                  Right. The very first paragraph.
 8
            Q
 9
                  Right.
10
                  I'm reading from it. "As Medical
11
     marijuana legalization creeps across the country
12
     state by state in defiance of Marijuana's schedule
     1 status at the federal level."
13
14
                  Do you see that part?
15
            Α
                  Yes.
16
                  That's what you're talking about when
     you said previously that there is a disconnect; is
17
18
     that correct?
19
            Α
                  Yes.
                  Are states defying the Schedule 1
20
21
     status of marijuana?
22
            Α
                  They're ignoring it.
                  That's a form of defiance; correct?
23
            0
24
                  (Nodding)
            Α
25
            Q
                  When you say they're ignoring it,
```

49 1 CINDY ORSER 2 what are the practical ways that states -- for 3 instance, you're in Nevada. What's a practical 4 way that Nevada, if they do, ignored the Schedule 1 requirements or status? 5 6 By rolling out their medical and 7 retail marijuana programs. Are those programs limited to 8 9 consumers or other entities in Nevada? 10 Up until very recently, Nevada 11 allowed reciprocity with California. So if you 12 had a Medical Marijuana card from California, Nevada would accept it. But that's no longer the 13 14 case. 15 California doesn't accept the card 0 16 from Nevada? It's the other way around. 17 No. California now has their own program, regulated 18 19 program. It starts January 1st. 20 Q But those two states are states in 21 which Medical Marijuana is legal; correct? 22 Α Yes. 23 0 My question really goes to those states where Medical Marijuana is not considered 24

25

legal.

```
50
 1
                         CINDY ORSER
 2.
                  My issue that I asked you about was
     the disconnect or the defiance of the state law.
 3
 4
     Excuse me, the defiance of the federal guideline
 5
     of Schedule 1; correct?
 6
            Α
                  (Nodding)
 7
                  Is that defiance in part selling
     Medical Marijuana products to states where Medical
 8
 9
     Marijuana is not legal?
10
                       MR. SHEPS: Objection.
11
                       MR. BORON: Objection as to
12
                  form.
13
            Α
                  No.
14
                  One of the examples of the defiance
15
     that you just mentioned was between, I guess,
    Nevada and California, I think; wasn't that your
16
     testimony?
17
18
                       MR. BORON: Objection as to
19
                  form.
20
                       MR. SHEPS:
                                    Objection.
21
            Α
                  I just said they had reciprocity.
22
                  Okay. So what then is an example of
     the defiance that you mentioned of a state of the
23
     federal Schedule 1 status?
24
25
                       MR. BORON: Objection as to
```

```
51
 1
                          CINDY ORSER
 2.
                  form.
 3
                  It's a state, any state, it could be
            Α
 4
     New York, knowing that there's a federal Schedule
     1 ruling on cannabis, yet that state, by virtue of
 5
     it's voters' wishes, stands up for the cannabis
 6
 7
     program, so that within the state, there can be
 8
     this commerce.
                  Within the state there could be that
 9
10
     commerce; correct?
11
                  (Nodding)
            Α
12
                  But from Nevada to other states,
            Q
     there cannot be that commerce; correct?
13
14
                       MR. SHEPS: Objection.
15
                       MR. BORON: Objection as to
16
                  form.
17
                  It depends on what's in the product.
18
                  What's in the product is governed by
     a federal -- in this case, specifically a Schedule
19
     1 guideline; right?
20
21
                       MR. BORON: Objection as to
22
                  form.
23
            Α
                  Can you restate that question?
24
            Q
                  Sure.
25
                       MR. BENJAMIN:
                                       What was the last
```

```
52
 1
                          CINDY ORSER
 2.
                  answer? Can you read back the last
 3
                  answer?
                        (The requested portion of the
 4
                  record was read back by the
 6
                  reporter.)
 7
                  So let's talk specifically about THC,
     which is the issue here.
 8
                  It is perfectly legal and legitimate,
 9
10
     in your opinion, for a Nevada company to sell,
11
     manufacture or distribute a product containing THC
12
     within Nevada; correct?
13
                       MR. SHEPS: Objection.
14
                       THE WITNESS: What's the
15
                  objection?
16
            Q
                  Well, now you're acting like a
     lawyer.
17
18
                       MR. BENJAMIN: Read it back,
19
                  please.
20
                        (The requested portion of the
21
                  record was read back by the
22
                  reporter.)
23
                       MR. SHEPS: I restate my
24
                  objection.
25
            Α
                  Yes.
```

```
53
 1
                         CINDY ORSER
 2.
                  It would not be legal to distribute a
            O
     product containing THC from Nevada to a state
 3
 4
     that -- where Medical Marijuana is not legal;
 5
     correct?
                       MR. SHEPS: Objection.
 6
 7
                       MR. BORON: Objection to form.
                  Only if that product was greater than
 8
            Α
 9
     .3 percent THC.
10
                  THC, we agree, is a federal Schedule
            Q
11
     1 controlled substance; correct?
12
                       MR. SHEPS: Objection.
13
                  At the federal level.
            Α
14
                  So the answer is yes?
            Q
15
            Α
                  Yes.
16
                  Other than Nevada, are there other
     states that act in defiance of that Schedule 1
17
     status as you state in the article?
18
19
            Α
                  Yes.
20
                  Are those the states you list in the
21
     next sentence, Washington -- I'm quoting --
22
     Washington, Massachusetts, Oregon, California?
23
                  Those states have retail marijuana
            Α
    programs. States can either have medical or
24
25
     retail. I mean medical usually precedes retail.
```

```
54
 1
                          CINDY ORSER
 2.
                  But those are the states that you are
            O
 3
     stating here are acting in defiance of the
 4
     Schedule 1 status; is that true?
 5
                  That's a subset, yes.
 6
                  You wrote this article in
 7
     March/April, 2016; right?
 8
                       MR. BORON: Objection as to
 9
                  form.
10
                  That's when it was published.
            Α
11
                  So you probably wrote it sometime
            Q
12
     before that?
13
            Α
                  Yes.
14
                  You stated in the next sentence that
15
    what is missing, and I'm quoting, "What is missing
16
     is standardization of Medical Marijuana testing;"
     right? Do you see that section?
17
18
                  Yes.
19
                  That was the case when you wrote this
     article sometime before March/April of 2016;
20
21
     correct?
22
                  (Nodding)
            Α
23
            0
                  And that certainly was the case back
     in 2012, which is the time when the plaintiff is
24
25
     alleging he took this product; correct?
```

```
55
 1
                         CINDY ORSER
 2.
                       MR. SHEPS: Objection.
                       MR. BORON: Objection as to
 3
 4
                  form.
            Α
                  Yes.
 6
                  Today, a little over a year later, is
 7
     that still the case?
 8
            Α
                  Yes.
 9
                  In play now, are there efforts that
10
     you know of to standardize Medical Marijuana
11
     testing?
12
            Α
                  Yes.
13
                  Where first?
14
                  There's many organizations, some of
    which I'm a member of. The Association of
15
16
     Commercial cannabis Labs. There's the American
     Oil Chemists' Society. There's the American
17
     Chemical Society. There's the Association of
18
19
    Official Chemists. No. Association of --
20
     Official Association of Analytical Chemists.
21
                  There's several very well known
22
     groups that are trying to work together to produce
     validated protocols, much like what exists within
23
24
     the EPA.
25
                  Are those protocols an effort to make
```

56 1 CINDY ORSER 2. it national or federal standards? The effort is to create 3 Α 4 standardization across the network of existing 5 cannabis testing labs. So the effort is only concentrated in 6 7 those states that you mentioned in this article; 8 true? 9 The states that have cannabis 10 programs, yes. 11 Is there any effort outside of those 12 states where Medical Marijuana is not yet legal to bring standardized cannabis testing to light or to 13 14 the floor? 15 Not that I know of. 16 Q When you say lack of federal oversight by the FDA, EPA and Department of 17 Agriculture, what did you mean in that statement, 18 19 in that last sentence of that paragraph? 20 MR. BORON: For the record, are 21 you citing from her article? 22 MR. BENJAMIN: Yes. I'm sorry. 23 It's the last sentence in the first 24 paragraph. 25 Α Well, normally any food or

57 1 CINDY ORSER 2 agricultural commodity where there's the use of pesticides and people are ingesting, enjoys some 3 4 level of federal oversight so that the consumer can have more confidence in that there's a quality assurance assumed inherent in the products, and 6 7 that doesn't exist currently except on a state-by-state basis. 8 9 So what you're referring to there was really a safety or quality assurance issue; 10 11 correct? 12 Α I mean it is about public Yes. safety. 13 14 That was not intended to address the 15 controlled substance part of cannabis testing, 16 correct? 17 Correct. 18 MR. SHEPS: Go off the record. 19 (At this time, a brief recess 20 was taken.) 21 CONTINUED EXAMINATION 22 BY MR. BENJAMIN: Dr. Orser, if you could please take a 23 0 look under the paragraph, still on the first page 24 25 under standardization of cannabis testing, that's

58 1 CINDY ORSER 2. the heading? 3 Α Mm-hmm. 4 0 In the middle of that paragraph, and 5 I quote, you write: The standards that federal 6 regulations would specify for the cannabis 7 industry in lieu of each state figuring it out on their own include: Uniform batch and sample size 8 for testing, testing frequency, sample 9 10 preparation, use of certified reference standards, 11 and standard operating procedures, et cetera. 12 Do you see that part? 13 Α Yes. 14 You believe that there should be 15 federal regulations as to cannabis testing; right? 16 MR. BORON: Objection as to 17 form. I believe that the industry would 18 benefit from federal oversight of some of these 19 20 functions. 21 Q Instead of letting states figure it 22 out on their own; correct? 23 From a standpoint of standardization, Α 24 yes. 25 Q The first thing you said there was

59 1 CINDY ORSER 2 uniform batch and sample size for testing. 3 just simply -- strike that. 4 In other words, there are variable --5 when you test cannabis at Digipath, you give variable batch and samples sizes I guess? 6 7 It's established. Α No. In Nevada a batch is 5 pounds of cured flower or extract that 8 9 has been made from 15 pounds of trim. 10 And that differs from state to state? Q 11 Α Yes. 12 Thank you. If you could skip to the Q bottom of that page under the heading Quality 13 14 Assurance Challenges, and there's sort of a 15 subparagraph where you start as pesticide 16 residues. Do you see that part? 17 Yes. The second to the last sentence says: 18 19 When it comes to pesticides, the label on the 20 container is the law. 21 Do you see that? 22 Α Yes. 23 0 Can you elaborate on what you were saying there, as to pesticides anyway? 24 25 Α So pesticides have a label that says

```
60
 1
                          CINDY ORSER
 2
     what crops you're allowed to use them on.
 3
     that's the job of the EPA. And because -- because
 4
     of the disconnect at the federal level, there have
    been no pesticide trials carried out on Cannabis
 5
     to know what a tolerance limit should be.
 6
 7
                  So there's a label on pesticides.
            0
                  Are there controlled substances
 8
 9
    within pesticides?
10
                  Not to my knowledge.
            Α
11
                  So is there a certain legal
            Q
12
     requirement for labels for pesticides?
13
            Α
                  Yes.
14
                  What is that legal requirement?
            Q
15
                       MR. SHEPS:
                                    Objection.
16
            Α
                  It's the props that that pesticide
     has been approved for use on.
17
18
                  Is that a federal requirement?
            Q
19
            Α
                  Yes.
20
            Q
                  Is there a statute that that applies
21
     to?
22
                       MR. SHEPS: Objection.
23
                  I don't know. I'm sure it does.
            Α
24
            Q
                  Okay. Thank you.
25
                  On page -- actually, it's page 9 of
```

61 1 CINDY ORSER 2 the article. It's the second page of the exhibit, 3 but it's page 9 of the article under the heading 4 the major plant Cannabinoids, do you see that? A Yes. 6 0 And the sentence says 7 tetrahydrocannabinol, otherwise known as THC. should say THC is in parentheses, is a powerful 8 9 psychoactive agent, analgesic, muscle relaxant, antispasmodic, neuroprotective antioxidant that 10 11 delivers 20 times the anti-inflammatory power of aspirin and twice the power of Hydrocortisone. 12 13 Do you see that paragraph? 14 A Yes. 15 Q THC is a wonder drug; isn't it? 16 MR. SHEPS: Objection as to form. 17 Can you answer the question? 18 Q 19 Α It's pretty amazing. Did you ever describe marijuana as a 20 Q 21 wonder drug? 22 Α No. Are you an advocate of keeping THC in 23 0 formulated cannabis products? 24 25 Α Yes.

```
62
 1
                          CINDY ORSER
 2.
                  Why?
            Q
 3
            Α
                  Well, to the best of our knowledge,
 4
     THC is a key contributor to the effectiveness of
 5
     cannabis. So removing THC from cannabis per se
     wouldn't make sense.
 6
 7
                  Is it fair to say that a product, and
     I mean a formulated product, we're talking about a
 8
     formulated product in this case, would be
 9
10
     ineffective without any THC?
11
            Α
                  No.
12
                  What then makes a product effective
     without THC? What component of a formulated
13
14
     Medical Marijuana product would make it effective
15
     without THC?
16
            Α
                  CBD.
                       MR. SHEPS: Objection.
17
18
                  Okay. CBD is not a Schedule 1 drug;
19
     correct?
20
                                    Objection.
                       MR. SHEPS:
21
            Α
                  I don't believe so.
22
                  Are you aware of the Schedule 1
            Q
23
     substances?
24
                  I think there's three.
            Α
25
                  There are three in your line of work,
```

```
63
 1
                          CINDY ORSER
 2.
     or there are three in total that you know of?
                  The federal statute I believe lists
 3
            Α
 4
     three drugs as Schedule 1.
 5
                  What are those, to your knowledge?
 6
                  Ecstasy, marijuana and one of the
 7
     Opioids, but I don't remember if it's -- I don't
 8
     remember the third one.
 9
                  Are you familiar with the substances
10
     that are in the Schedule 1 drugs that make them
11
     the controlled substance?
12
            Α
                  In part.
13
                  THC is one; correct?
14
                  THC is the component in marijuana.
                                                        Ι
15
     don't remember the chemical in Ecstasy.
16
            Q
                  So if you are -- going back to my
     question, if you were an advocate of, I guess,
17
     leaving THC in the formulated products, is that --
18
19
     the question is can you be unbiased and give an
20
     unbiased opinion in this case given that
21
     statement?
22
            Α
                  Yes.
23
                       MR. BORON: Objection as to
24
                  form.
25
                       MR. SHEPS:
                                    I join in the
```

		64
1		CINDY ORSER
2		objection.
3	А	Because I believe when you first
4	phrased that	question, you said cannabis
5	formulations	. This case involves hemp
6	formulations	•
7	Q	So tell us what the difference is
8	between hemp	and cannabis formulations.
9	A	I can't possibly answer that.
10	There's thous	sands of formulated products out there
11	for cannabis	and hemp.
12	Q	You don't test hemp products?
13	A	We do.
14	Q	You do test hemp products?
15	А	Yes.
16	Q	And you test them at Digipath?
17	А	Digipath Labs, yes.
18	Q	For example, what type of hemp
19	products do y	you test at Digipath?
20	А	Hemp extracts and distillates and
21	also the plar	nt.
22	Q	Is that known as industrial hemp or
23	is that known	n as something else?
24	А	Industrial hemp.
25	Q	The plant is known as industrial

```
65
 1
                          CINDY ORSER
 2.
     hemp; correct?
 3
            Α
                  (Nodding)
 4
            0
                  Industrial hemp itself contains THC
 5
     as a general rule?
 6
                       MR. BORON: Objection as to
 7
                  form.
                       MR. SHEPS: Objection.
 8
 9
                  It can have very small amounts.
            Α
10
     depends on the genetics of the plant.
11
                  So if you were asked to analyze
12
     industrial hemp plant at Digipath, you're saying
     that some samples that you either take, Digipath
13
14
     takes themselves or are sent to you at Digipath
15
     contain -- some samples contain THC and some do
16
     not contain THC?
17
                  Correct.
18
                  Is there a certain type of hemp that
19
     does contain THC as opposed to those that don't?
20
                  There's hundreds of strains of hemp,
            Α
21
     and there's an explosion of amateur plant breeders
22
     out there.
                 So the heterogeneity is high.
23
                  Do you know what type of hemp in
            0
     particular the Dixie defendants or Medical
24
25
     Marijuana defendant here used to make its Dixie X
```

```
66
 1
                          CINDY ORSER
     product?
 2
 3
                       MR. SHEPS: Objection as to
 4
                  form.
 5
            Α
                  No.
 6
                  Were you ever informed by anybody at
            Q
 7
     any of the defendants as to what type of hemp
     product they use?
 8
                       MR. BORON: Objection as to
 9
10
                  form.
11
            Α
                  Related to this case?
12
            0
                  Yes.
13
            Α
                  No.
14
                  Did you ever talk to anybody at Dixie
            Q
15
     Elixirs Company?
16
            Α
                  I've met Trip.
17
                  Trip Keber?
            Q
                  Right. At some marijuana expo.
18
            Α
                  When was that conference, did you
19
            0
20
     say?
21
            Α
                  You know, they happen every six
22
     months, but it was several years ago I met him.
23
            0
                  Do you know, say, as a reference
     point, October of 2012. When did you meet Trip
24
     Keber in relation to that date?
25
```

67 1 CINDY ORSER 2. Oh. It would have been 2015. Around Α 2015. 3 4 0 You told me the circumstances. it just a passing conversation, was it technical? 5 So companies that have refined 6 No. 7 their formulations and have branded products were coming to Nevada hoping to license their product 8 to someone who held a license to, that would be 9 10 able to manufacture it. 11 Did he come to you for that purpose? 12 Α He did not. One of our clients was in talks with them. So that's the occasion upon 13 14 how I met him. 15 Q Did anything go forward from there? 16 Α No. Do you know why not? 17 18 In fact, it could have gone forward, 19 because there's a lot of clients that jump ship 20 because another lab will open and give them 21 cheaper testing. I think we just lost touch with 22 that project. 23 0 In that conversation that you had with him, if I can go back a question, it was only 24 25 one conversation; correct?

```
68
 1
                          CINDY ORSER
 2.
            Α
                  Yes.
 3
                  Did you discuss specifically THC
            0
 4
     content --
                  No.
            Α
 6
                  -- in any Dixie product?
            Q
 7
            Α
                  No.
                  Other than Trip Keber, have you ever
 8
            Q
     talked to anybody from the Dixie companies?
 9
10
            Α
                  I know an individual who used to work
11
     for Dixie who now runs a Hemp farm in Colorado.
12
            Q
                  Okay. Do you know that name?
13
            Α
                  Yes.
14
                  Who is that?
            Q
15
                  Steven Turetsky.
            Α
16
                  What was his position at Dixie; do
            Q
     you know?
17
                  I think he did a lot. Like, you
18
19
     know, whatever needed to be done, he did.
20
                  Does that mean on the scientific end,
            Q
21
     or does that mean somewhere else?
22
                  I mean he's not a Ph.D. or anything.
     I don't believe he was doing formulation work. I
23
     think he was doing more business development.
24
25
                  How do you spell his last name, if
```

```
69
 1
                          CINDY ORSER
 2
     you know?
 3
            Α
                  I do. T-U-R-E-T-S-K-Y.
 4
                  Did you discuss anything about Dixie
            Q
 5
     products with him?
 6
            Α
                  No.
 7
                  Other than him, anybody else at the
            0
     Dixie companies?
 8
 9
            Α
                  No.
10
                  Same question as to Medical
            Q
11
     Marijuana, have you ever had a conversation with
12
     anybody about Medical Marijuana?
13
            A
                  No.
14
                  As you sit here today, do you know
15
     why THC is a Schedule 1 drug? Substance.
                                                  Excuse
16
     me.
17
                       MR. BORON: Objection as to
18
                  form.
                       MR. SHEPS: I join in that.
19
20
                  No, I don't know.
            Α
21
                  Are there adverse effects of THC on
22
     the body, to your knowledge?
23
                  That's awfully broad.
            Α
24
                  Well, in your article, again under
            Q
25
     the heading of major plant cannabinoids, if you
```

70 1 CINDY ORSER 2 look at the second paragraph starting with Cannabinol, CBD, you say in the second line that 3 4 CBD helps our bodies. I should say helps our 5 bodies -- I'm paraphrasing. Helps our bodies moderate some of the adverse effects of THC; 6 7 correct? 8 Α Correct. 9 So are there adverse affects of THC, 10 generally speaking? 11 MR. BORON: Objection as to 12 form. 13 The ones I've listed here. 14 So there are. Do you have an 15 opinion as to why -- that's why THC is a 16 controlled 1 substance? 17 MR. SHEPS: Objection. 18 Controlled substance, Schedule 1? Q 19 MR. BORON: Objection as to 20 form. 21 I doubt it. 22 As you sit here today, you don't know why THC is a Schedule 1? 23 24 Well, there's stories about why. But Α 25 from a legal standpoint, I can't comment. I'm not

```
71
 1
                          CINDY ORSER
 2
     a lawyer.
 3
            0
                  Well, from a scientific standpoint,
 4
     can you tell us why THC would be something that
 5
     the Federal Government feels should be regulated?
 6
                       MR. SHEPS: Objection.
 7
                       MR. BORON: Objection as to
                  form.
 8
                  I think it's political.
 9
10
                  When you say that, do you mean that
11
     some sections of the society simply don't like it
12
     and some do?
13
                  Correct.
14
                  Do you know who that would be?
            O
15
                       MR. SHEPS: Objection.
16
            Q
                  Who, in your view, are segments of
     society that don't like the existence of THC for
17
18
     human consumption?
19
                       MR. SHEPS: Objection.
20
                       MR. BORON: Objection as to
21
                  form.
22
            Α
                  Jeff Sessions.
23
                  How about police as a general matter,
            Q
     do you have the opinion that police don't
24
25
     support --
```

```
72
 1
                         CINDY ORSER
 2.
                  You know --
            A
 3
                       MR. BORON: Objection.
 4
                       Let him finish. Remember, he
                  has to get to the end of every
 6
                  question, Dr. Orser. Otherwise we're
 7
                  going to have a record that nobody is
                  going to be able to make any sense of
 8
 9
                  at the end.
10
                  Do you have the opinion that police
11
     don't support having THC in products for human
12
     consumption?
13
                       MR. SHEPS: Objection as to
14
                  form.
15
            Α
                  I'm sure some police aren't in favor
16
     of it.
                  What is a terpene in your article?
17
18
                  Well terpenes are another class of
19
     molecules that the cannabis plant makes. And
     technically, cannabinoids are phenolic terpenes.
20
21
     So terpenes also provide physiological effects in
22
    biological systems. Most of what we know comes
     from animal studies.
23
24
                  And under the paragraph of -- still
            Q
25
     on page 9 under the heading Important Message
```

73 1 CINDY ORSER 2 About Dosages, do you see that paragraph? 3 Α Yes. 4 In the middle of that paragraph, you wrote: Until recently, the focus on potency has 5 been on THC levels. The sentence continues. 6 7 Can you explain that statement, what the focus on potency -- I assume you mean testing 8 9 has been on THC levels? 10 MR. BORON: Objection. 11 But you tell me. What did you mean Q 12 when you wrote that? Do you understand that? 13 The value placed on a cannabis No. 14 product has focused on the THC levels, and that's 15 slowly changing as people become better educated 16 about the contributing effects of other cannabinoids in terpenes. 17 18 So why has the focus been on THC 19 levels? 20 Lack of education. It's a term Α 21 everyone knows. 22 Could you explain then the chart at the bottom of page 9 which is a table. It's table 23 1, and the heading is Edibles THC Dosage Rules of 24 25 Thumb.

74 1 CINDY ORSER 2. Can you walk us through what that means to -- what information does that mean to 3 4 convey specifically? 5 MR. BORON: Objection as to 6 form. 7 People who are new to using cannabis as a medical product often are confused about how 8 9 much they should take. And the correct term would 10 be titration, not dosage. So this was just 11 intended to provide some level of guidance. 12 Level of guidance as to what, as to Q 13 treatment of certain conditions, or what? 14 Based on your experience with A No. 15 using cannabis, how much of a product you should 16 take. So 2 milligrams would be a starting dose for someone. 17 18 You stated in your report you're not an MD, you're not a doctor; correct? 19 20 Α Right. 21 Why were you recommending dosages of 22 THC here? 23 Because I was asked to include that Α 24 in the article. 25 That table has to do with edibles;

```
75
 1
                          CINDY ORSER
 2.
     correct?
 3
                  Correct.
            Α
 4
                  When you defined it there, did you
            Q
     mean the formulated product?
 5
 6
            Α
                  An edible, yes.
 7
                  As opposed to the marijuana
     cigarette?
 8
 9
                  Correct.
10
                  If you flip to page 10 of that
11
     article, in the -- it's on -- page 10 looks like a
12
     list of definitions, right, and you see under
     tinctures, right -- tinctures in your article here
13
14
     are administered sublingually; correct? Do you
15
     see that?
16
            Α
                  Yes.
                  What does that mean?
17
18
                  Putting it under your tongue.
            Α
19
                  Is taking a tincture, you know,
            0
20
     sublingually, is that a better way to take a
21
     Medical Marijuana product as opposed to say
     smoking a marijuana cigarette --
22
23
                        MR. BORON: Objection as to
24
                  form.
25
            Q
                  -- in your opinion?
```

```
76
 1
                         CINDY ORSER
 2.
                  In my opinion, yes.
            Α
 3
            0
                  So why is it better to take something
     sublingually?
 4
 5
                       MR. BORON: Objection as to
 6
                  form.
 7
                  Well, you know, combustion of any
     material produces a range of compounds that can be
 8
     harmful. So avoiding smoking in general is a good
 9
10
     idea. Sublingually there's just lots of blood
11
     vessels under your tongue, so if you can bypass
12
     the enteric system, you get more product into your
13
     bloodstream sooner.
14
                  More bang for the buck?
            Q
15
                       MR. BORON: Objection as to
16
                  form.
17
            Α
                  Yes.
18
                  And with respect to page 11 under the
19
     heading Cannabis Product Labeling, do you see that
20
     there?
21
            Α
                  Yes.
                  You state that medical cannabis
22
     products sold in Nevada are required to have a
23
24
     label that at a minimum the following cannabinoid
25
     test results presented as a percentage of the
```

```
77
 1
                          CINDY ORSER
 2
     weight: and you have there THC, CBD, THCA and CBN.
     Do you see that there?
 3
 4
            Α
                  Yes.
 5
                  That is something specific to Nevada;
 6
     correct?
 7
            Α
                  Correct.
                  Are medical cannabis products sold
 8
     outside of Nevada supposed to have a label as to
 9
10
     THC?
11
                       MR. SHEPS: Objection.
12
            Α
                  It depends on the state.
13
                  So it doesn't apply to every state;
14
     is that correct?
15
            Α
                  Correct.
16
                  Only certain states follow their own
     labeling laws; is that true?
17
18
                       MR. SHEPS: Objection.
19
                  Each state has their own rules.
            Α
20
                  As to labeling in particular?
            Q
21
            Α
                  I'm not totally familiar with every
22
     cannabis complicit state's labeling laws.
23
                  Are you familiar with a federal
            Q
24
     labeling law?
25
            Α
                  For?
```

```
78
 1
                          CINDY ORSER
 2.
                  For THC content.
            Q
 3
            Α
                  No.
 4
                  Is there one at all?
            Q
                  I'm not aware of one.
            Α
 6
                  Are you familiar with the labeling as
 7
     to controlled substances generally under Schedule
 8
     1?
 9
            Α
                  No.
10
                  The last paragraph of that article
11
     says that you're distinguishing what -- here, I'm
12
     paraphrasing, the acidic form or Delta-9-THC.
13
                  Can you tell us what is Delta-9-THC?
14
                  So Delta-9-THC is the product that's
15
     formed within THCA is heated. It's called
16
     decarboxylation.
                  That's like in smoking a cigarette;
17
18
     right?
19
            Α
                  Correct.
20
                  So in the formulated products does --
21
     is THC heated in that process, to your knowledge?
22
                  Normally, but not always.
            Α
23
                  We can put that aside. Thank you.
            0
24
                  Are you aware generally of the
25
     process by which the Dixie formulated product was
```

```
79
 1
                          CINDY ORSER
 2.
     made?
 3
                       MR. BORON: Objection as to
 4
                  form.
 5
                       MR. SHEPS: I join in that
 6
                  objection.
 7
            Α
                  I never --
 8
                  The Dixie Dew Drop -- Dixie Elixir
            0
 9
     product we're alleging in this case.
10
                  I've never seen the specification.
11
                  So you're not aware of how Dixie or
            0
12
     other companies make -- take hemp and make a
13
     formulated product?
14
                       MR. SHEPS: Objection.
15
            Α
                  I don't specifically know how Dixie
16
     did it, but I certainly know how other companies
     do it.
17
18
                  So can you tell me generally what you
19
     know about other companies and how they turn a
20
     hemp product into a product like a tincture here?
21
                  There's an extraction step, so the
22
     most simplistic way is you take dried hemp and
     extract it with some solvent like ethanol. And
23
     then after it sits there for a while, you sieve
24
25
     out the gross plant material. So then you're left
```

80 1 CINDY ORSER 2. with the tincture, the ethanol extract. 3 0 That's called an extraction process 4 for hemp? 5 That's the most simplistic. You can also use pressurized CO2, you can use propane, 6 7 butane. Okay. In that net product which you 8 Q 9 said was --10 It's an extract. 11 -- an extract, okay, is there further 12 sort of refinement that goes from there, or is 13 that just put in the bottle? Is what you just 14 described simply put in a bottle after that 15 process? 16 MR. BORON: Objection as to form. 17 One could put it in a bottle and call 18 19 it a tincture, or there could be additional 20 distillation steps to further concentrate. 21 Further concentrate, you said. 22 about is there a process at that stage, at the 23 first extraction stage that you just described, where, you know, the content of that product is 24 25 analyzed, for instance, for THC or CBD?

81 1 CINDY ORSER 2. It should be analyzed, otherwise you Α don't know how much is in there. 3 4 Right. So at that point in the Q refinement -- is it fair to say it's a refinement 5 6 process, formulating process? What should I call 7 it? 8 I think a refinement is fine. Α 9 So at the point where, for instance, 10 THC would be identified in that net product that 11 you just testified to, would there then be a 12 removal of the THC content before it goes to final 13 consumable product? 14 Not normally. Α 15 0 Whatever is in there will be left in 16 there before it's put into the market; is that correct? 17 18 MR. SHEPS: Objection. 19 MR. BORON: Objection as to 20 form. 21 Is there a process by which THC 22 specifically can be removed from a refined hemp 23 product? 24 It could be through distillation Α 25 where you separate the cannabinoids.

82 1 CINDY ORSER 2. And in those other companies, other Q 3 than Dixie that you mentioned, does that process 4 happen where it's further distilled? 5 Further distillation absolutely 6 In fact, yes, that's where the industry happens. 7 is going. Does that distillation mean removal 8 Q of THC? 9 10 Yes. You end up with 99 percent pure 11 product. 12 What is that product in the end? Q 13 CBD. 14 So then the question is what is the 15 purpose of removing the THC from the product? 16 Α It's not just the THC. It's the other -- this plant also has waxes. 17 There's lots 18 of things you would like to remove. 19 Almost like impurities; correct? 20 It like chlorophyll. Α 21 Things that are not exactly healthy 22 for people to ingest; right? 23 MR. SHEPS: Objection. 24 If you're making a medical product, Α 25 you want to have specifications, so it has to be

83 1 CINDY ORSER 2 reproducible. So you have an SP of how you make 3 it, what are the steps. 4 Okay. But my question is simply as to THC. Going backwards, the distillation process 5 6 would want to take out say wax, as you just said, 7 correct, maybe dead bugs? 8 Α No. 9 Or other plant things --10 Other plant compounds. Α 11 Other plant compounds. 0 12 Α Or to get rid of the solvents. Unfortunately you're concentrating on pesticides. 13 14 But only with respect to THC, what 15 would be the reason why that company, those other 16 companies you mentioned, would want to take out the THC in that process leaving the 99 percent CBD 17 18 in there? 19 MR. BORON: Objection as to 20 form. 21 MR. SHEPS: I join in that. 22 Do you understand what I asked? Q 23 Α I do. Perhaps they wanted to be able to say there's no THC in it. 24 25 Q Do you know what other companies

84 1 CINDY ORSER 2. other than Dixie that you were talking about that 3 would take a hemp product and turn it into a 4 formulated product? Α Yes. 6 0 Can you give me some names? 7 Notis, N-O-T-I-S. It's a public There's Silver State in Nevada. 8 company. 9 Essence, Euphoria. There's tons of companies that 10 do that. 11 In your opinion, are those people 0 12 competitors with the Dixie company? 13 Elixinol is Yes, I suppose they are. 14 It's an international CBD company. a big one. 15 Q What has been your function with 16 those companies? Has there been any interaction with those companies that take industrial hemp and 17 18 refine it? Some of them we do test their final 19 Α 20 product for them because they want a C of A, 21 Certificate of Analysis. 22 What is the purpose of a company 23 coming to you and asking you for a Certificate of 24 Analysis? 25 Α Because they're selling wholesale and

85 1 CINDY ORSER 2 they want to be able to represent what their 3 product is. Mainly they're concerned about any 4 contaminants. So we screen for pesticides, heavy metals, residual solvents, microbials. 5 6 But you don't screen for things like Q 7 THC? 8 Α Of course we do. And CBD contents as well; correct? 9 10 11 cannabinoids. Α Yes. 11 11 cannabinoids. Dixie never asked 0 12 you though to do that in the past? 13 Α No. 14 This case is your first experience 15 with Dixie; is it not? 16 MR. BORON: Objection as to form. 17 My first legal experience with Dixie. 18 19 I was aware of their products in Colorado. 20 Q Right. But being aware of it, you've 21 never spoken to anybody or been retained by Dixie 22 for anything? 23 Α No. No. 24 Please, if you could take a look at Q 25 an article that I'm putting in front of you known

```
86
 1
                          CINDY ORSER
 2.
     as Orser B.
 3
                  Can you just take a moment to read
 4
     that article.
                        (At this time, a brief recess
 6
                  was taken.)
 7
     CONTINUED EXAMINATION
     BY MR. BENJAMIN:
 8
 9
                  If you can take a look at what's been
10
     marked Orser B.
11
                        MR. SHEPS: For the record, it
12
                  appears to be an article published in
13
                  a publication entitled
14
                  O'Shaughnessy's winter/spring, 2013.
15
                  It looks like page 25, article or
16
                  publication entitled Project CBD
                  Analysis, Medical Marijuana, Inc.
17
18
                  pitching CBD products by Martin A.
19
                  Lee.
20
                  Right. Have you had a chance to look
            Q
21
     at that article?
22
            Α
                  Yes.
                  Dr. Orser, are you familiar with
23
            Q
     O'Shaughnessy's publication?
24
25
                  I'm aware that this is a blog that
```

87 1 CINDY ORSER 2 goes out. I don't know if it's actually -- I've 3 never seen a magazine named that, but I know of 4 O'Shaughnessy. 5 How about BeyondTHC.com, have you 6 ever heard of that? 7 Α No. In this article, which is purported 8 to be in the winter/spring of 2013, do you see 9 10 that date there? 11 Α Yes. 12 The third paragraph down it says: Q In an October 2nd, 2012 press release, Medical 13 14 Marijuana, Inc. estimated that CBD and wellness 15 industry to be a \$5 billion market. Then it goes 16 on to say Dixie Elixirs, MJNA, which is the ticker symbol I quess for Medical Marijuana, referring to 17 Medical Marijuana by its ticker symbol, MJNA, that 18 19 their de facto subsidiary is the first business to 20 mass market CBD as a "wellness product." 21 Do you see that article? 22 Α Yes. 23 Do you know what the market is for CBD wellness products? 24 25 MR. BORON: Objection as to

```
88
 1
                          CINDY ORSER
 2.
                  form.
 3
                       MR. SHEPS: Objection.
 4
                  Today?
            Q
            A
                  No.
 6
                  Do you know the relationship between
 7
     Dixie Elixirs, a company known as Dixie Elixirs,
     and a company known as Red Dice Holdings, who is
 8
     another defendant in this case?
 9
10
                  No.
            Α
11
                  You know who Trip Keber is. That you
12
     stated before; right?
13
            A
                  Yes.
14
                  Do you see the statement that says
15
     the legal status of CBD is somewhat muddled.
16
                  Do you see that?
                  Yes.
17
18
                  On the first column it says:
19
     arrangement between Dixie and Red Dice is
20
     structured so that Medical Marijuana, Inc. is able
21
     to utilize only CBD -- only the CBD aspect of the
     licensing agreement while MJNA, referring to
22
     Medical Marijuana, Inc., eschews responsibility
23
24
     for Dixie's THC products.
25
                  Do you see that?
```

```
89
 1
                          CINDY ORSER
 2.
                  Yes.
            Α
 3
            0
                  Do you have an understanding of why
 4
     Medical Marijuana would avoid responsibility for
 5
     the THC products of Dixie?
 6
                       MR. BORON: Objection as to
 7
                  form.
                       MR. SHEPS: Objection.
 8
                  I don't know.
 9
            Α
10
                       MR. BORON: The question is
11
                  suggesting something that's not in
12
                  the quote that you gave.
13
                       MR. BENJAMIN: I think eschews
14
                  means avoid. So I'm simply quoting
15
                  the article.
16
            Q
                  But do you have any idea about a
     licensing agreement between the two companies?
17
18
                  No.
            Α
19
                  Now if you could skip over to the
     second column.
20
                     The third paragraph down starts
21
     with Medical Marijuana, Inc. says.
22
                  Do you see that?
23
            Α
                  Yes.
24
                  It says that it circumvents the
            Q
25
     federal prohibition by extracting CBD from
```

90 1 CINDY ORSER 2. industrial hemp, not from marijuana, that is grown outside of the United States in five different 4 countries. MJNA, in other words Medical 5 Marijuana, won't disclose which countries. 6 It actually says MLNA. I think 7 that's a typo. 8 That could be. Q 9 MR. BORON: I don't necessarily 10 think it's fair for your questions to 11 presume that Medical Marijuana, Inc. 12 and MGNA or MLNA are the same thing, 13 Jeff. Those names appear in the 14 sentence more than once in this 15 article. It's unlikely that the 16 author is referencing to the same 17 entity in two different ways within 18 the same sentence. 19 MR. BENJAMIN: In the second 20 paragraph, counsel --21 MR. SHEPS: The second paragraph 22 of what? 23 MR. BENJAMIN: The second 24 paragraph of this article I read 25 that -- it states that Dixie X, et

	91
1	CINDY ORSER
2	cetera, is the umbrella of Medical
3	Marijuana, Inc. and in paresthesia
4	says MJNA.
5	MR. SHEPS: It says now operates
6	under the umbrella of Medical
7	Marijuana.
8	MR. BENJAMIN: Okay. Right.
9	That's what it says, but it is
10	referring to Medical Marijuana, Inc.
11	as MJNA. If that is wrong and if you
12	know that to be wrong, then I'm not
13	going to I'm not verifying this
14	article. I'm just simply asking this
15	witness as to what her knowledge is.
16	MR. BORON: What I'm saying is I
17	don't know it to be right or wrong,
18	and I don't know whether you know it
19	to be right or wrong. I'm suggesting
20	that I don't think it's
21	appropriate for your questions to
22	interpret the acronym MJNA as meaning
23	Medical Marijuana, Incorporated.
24	I think at best, all that MJNA
25	is is an acronym used by some stock

	92
1	CINDY ORSER
2	market somewhere to refer to the
3	stock of Medical Marijuana, Inc.
4	MR. BENJAMIN: I'm not sure I
5	understand the difference that you're
6	stating an objection. But for the
7	purposes of this question, Medical
8	Marijuana, Inc. is stated
9	specifically in this paragraph, at
10	least at the beginning.
11	MR. BORON: In the section that
12	you just read about the licensing
13	agreement, the article says MJNA
14	eschews responsibility for Dixie's
15	THC products. MJNA is just a stock
16	symbol, so the article makes no
17	sense.
18	MR. BENJAMIN: Well, she
19	answered I don't know, so I think
20	that kind of took care of everything.
21	MR. BORON: Probably right, but
22	do you see my point?
23	MR. BENJAMIN: I understand.
24	I'm not trying to mischaracterize or
25	to say that this article has it

	93
1	CINDY ORSER
2	right.
3	But I will ask more specifically
4	if Medical Marijuana is making these
5	statements.
6	Q So going back to that paragraph. It
7	simple says that it circumvents. You see that
8	paragraph there; right?
9	A Yes.
10	MR. BORON: Can you just refresh
11	us on which paragraph you're
12	referring to?
13	MR. BENJAMIN: It starts with
14	Medical Marijuana, Inc. says it
15	circumvents.
16	MR. BORON: That's in the second
17	column of the article.
18	MR. BENJAMIN: Second column,
19	three paragraphs. It's like the
20	third paragraph, yes. It starts with
21	Medical Marijuana, Inc.
22	MR. BORON: Thanks.
23	MR. BENJAMIN: Sure.
24	Q Do you know why a company has to
25	import industrial hemp from outside the United

```
94
 1
                         CINDY ORSER
 2.
     States?
            Α
                  Yes.
 4
            Q
                  Why is that?
                  This article was written before the
 5
     Farm Bill of 2014, which then allowed for the
 6
 7
     cultivation of industrial hemp in cannabis
     complicity states.
 8
 9
                  Okay. So that would be a more recent
10
     law, the Farm Bill of 2014, that allowed for the
11
     use of domestic industrial hemp; correct? Is that
12
     what you're testifying to?
13
                       MR. SHEPS: Sorry. Could you
14
                  just read back the last question and
15
                  answer.
16
                       (The requested portion of the
17
                  record was read back by the
18
                  reporter.)
19
                  So in 2014, that statement would not
            0
20
     be correct as to those states. That's correct;
21
     right?
22
                       MR. BORON: Objection as to
23
                  form.
24
                       MR. SHEPS: I join in that
25
                  objection.
```

```
95
 1
                         CINDY ORSER
 2.
                            I mean to my knowledge.
            Α
                  Correct.
 3
            0
                  I understand. But back then in 2012,
 4
     a way a company got industrial hemp to their --
     into their possession was by importing it from
 5
 6
     another country; correct?
 7
                       MR. SHEPS: Objection.
                       MR. BORON: Objection as to
 8
 9
                  form.
10
                  Do you understand the question?
            0
11
            Α
                        That's my understanding.
                  Yes.
12
                  Then the next paragraph says:
            Q
                                                  The
     initial extraction is performed by another Medical
13
14
     Marijuana, Inc. subsidiary, and it says
15
     phytosphere, and it goes on to say, which provides
16
     raw hemp paste to Dixie X and its sister firms.
17
                  Let's start there. Was that the
     extraction process that you referred to when you
18
19
     were describing those other firms that you had
20
     been in contact with?
21
                       MR. BORON: Objection as to
22
                  form.
23
                  Of course I have no knowledge of how
            Α
     phytosphere did their extraction.
24
25
                  But the extraction process that you
```

96 1 CINDY ORSER 2 described to me, that is -- that produces a raw 3 hemp paste; isn't that true? 4 Α Right. 5 So the next sentence says, like other industrial hemp products legally imported into the 6 7 United States, this hemp paste apparently contains a minuscule amount of THC; hence it's legal to 8 9 bring it into the United States according to Dixie 10 officials. 11 Do you see that part? 12 Α Yes. 13 So the extracted hemp paste -- to 14 understand this portion, I want to make sure this 15 is correct in your knowledge, if you can testify 16 to it. 17 The hemp paste that's extracted from the plant, does it typically contain a miniscule 18 amount of THC? 19 20 MR. BORON: Objection as to 21 form. 22 To your knowledge. Q 23 Α Again, it depends upon the genetics of the hemp strain that is being grown. 24 25 Again, the level of THC that is

```
97
 1
                         CINDY ORSER
 2.
     allowed is what?
 3
                       MR. SHEPS: Objection.
 4
            Α
                  Less than .3 percent.
                  Where is that standard from?
            Q
                  Before 2014, I'm not sure.
 6
 7
                  Less than .3 percent only came to be
            0
     a requirement post 2014?
 8
                       MR. SHEPS: Objection.
 9
10
                  I'm associating it with the Farm
            Α
11
     Bill, but that might not be accurate.
12
            Q
                  Do you know the original source of
     that .3 threshold that you mentioned?
13
14
                  I don't.
            A
15
            Q
                  What does that .3 threshold apply to
16
     exactly, levels of what in what?
17
                  .3 percent of THC.
18
                  In what?
            0
                  In the raw -- the raw plant, the
19
            Α
     extracted plant. Whatever the hemp product is.
20
21
                  Well, is it the raw hemp plant, or is
22
     it some other product?
23
                  Well, people aren't going to import
            Α
     raw hemp. They're going to be importing extract.
24
25
            Q
                  Well, didn't this paragraph suggest
```

98 1 CINDY ORSER 2. that that's what they had to do? 3 We don't know where phytosphere is. Α We don't know if it's a U.S. 4 5 I understand that. But back then, according to this 6 7 article, companies did import the raw hemp plant. Is that not true? 8 I don't know. 9 10 They didn't import extracted product, 11 correct, to your knowledge? 12 Α I don't know. I mean it doesn't seem feasible to be importing a product that looks like 13 14 It would be very expensive. hev. 15 0 But your testimony is that the 16 .3 percent applies to the raw hemp. Is that what your testimony was? 17 18 I think it's a spectrum of hemp-based 19 products. The threshold is .3 percent. 20 And you don't know the source of that 21 .3 percent as you sit here today; correct? As I said before, I associate it with 22 the 2014 Farm Bill. 23 24 But you do not know whether it was in Q 25 effect prior to 2014?

99 1 CINDY ORSER 2. I do not know. A 3 0 Thank you. If you look at the last 4 column, halfway down the column you'll see a 5 paragraph that starts -- actually it's the second 6 paragraph, the second full paragraph, whereas 7 Medical Marijuana, Inc. Do you see that? 8 9 Α Yes. 10 I'm reading from the article. 11 Whereas Medical Marijuana, Inc.'s press releases 12 initially included sweeping claims about CBD's therapeutic efficacy, the company has recently 13 14 shifted it's rhetorical gears as part of a 15 re-branding makeover. Hence forth, Dixie's CBD 16 products will be marked strictly as "hemp oil" dietary supplements and cosmetics rather than 17 curatives in order to comply with FDA rules. 18 19 it quotes, you see the quote there: "We had a little bit of a misstep in our initial launch 20 21 because of our backgrounds in medicinal cannabis. 22 It references after that Lungsford 23 acknowledged. Early in the article I think it was referring to Kristy Lunsford. She goes on to say: 24 25 We didn't understand what claims were appropriate.

```
100
                          CINDY ORSER
 1
 2.
                  Do you know what missteps at their
     initial launch for the Dixie CBD products were
 3
 4
     that she's referring to there?
 5
                       MR. BORON: Objection.
 6
                  I do not.
 7
                  Do you know if Medical Marijuana made
     certain medicinal cannabis claims that were
 8
 9
     unsupported?
10
                  I do not.
            Α
11
                  Have you ever observed, as a general
12
     matter, what the Dixie Elixir product promised in
13
     terms of its medicinal value?
14
                       MR. BORON: Objection as to
15
                  form.
16
                       MR. SHEPS: I join in that
                  objection.
17
18
            Α
                  No.
19
                  The last piece of your attention I
            0
20
     would like to go to, please, is the last paragraph
21
     which says as we go to press. Do you see as we go
22
     to press?
23
            Α
                  Yes.
24
                  As we go to press, we find this
            Q
25
     message from Dixie Botanicals on its websites, and
```

101 1 CINDY ORSER 2 it quotes, we have revised our labels for our 3 small containers, and these small labels do not 4 have enough room for the supplemental facts box. Do you see that part? 5 6 Mm-hmm. Α 7 Are you, first of all, aware of what was on the Dixie Botanicals labels? 8 9 MR. BORON: Objection as to 10 form. 11 This is the only thing I know is Α 12 there was a photo of the back side, I guess, of this dew drops where it said this product contains 13 14 CBD and other cannabinoids. 15 Yes. And I'm sorry. I don't want 16 you to guess. Let me please give you --17 MR. BENJAMIN: Does counsel have 18 an objection to me taking exhibits 19 out of marked order, or should we 20 rename them? I guess it doesn't 21 really matter; does it? 22 MR. SHEPS: I don't have any 23 objection. Call it whatever you 24 labeled it. 25 MR. BENJAMIN: We labeled this

```
102
 1
                          CINDY ORSER
 2.
                  Exhibit Orser G.
 3
            0
                  If you could look at that in
 4
     conjunction with what we just read. If you could
 5
     just take a moment to look at that with him.
                       MR. SHEPS: Off the record.
 6
 7
                        (Discussion held off the
                  record.)
 8
 9
                  I'm sorry, but I have to take out of
10
     order what's been marked Exhibits Orser G and H.
11
     For purposes of some quick questioning on the
12
     label, there are two photos that were also
     exhibits in prior depositions. But if you can
13
14
     take a look at those, please, and just review
15
     them.
16
                  Have you had a chance to look at
     those labels?
17
18
                  Yes.
19
                  If you can look at those labels, you
     had referenced that there was CBD extract, I
20
21
     believe; correct, from your memory?
22
                       MR. BORON:
                                    Objection as to
23
                  form.
                  I believe what I said was that the
24
            Α
25
     product contained CBD and other cannabinoids.
```

```
103
 1
                         CINDY ORSER
 2
     That's what I remember seeing.
                  Does this label, to your knowledge,
 3
            Q
 4
     indicate that?
            Α
                  Yes.
                  You're referencing exhibit?
 6
            Q
 7
                  G.
            Α
                  G. Okay. So you're referencing
 8
     specifically to CBD, and it looks like there's an
 9
10
    asterisk --
11
            Α
                  Right.
12
                  -- extract derived from medicinal
            O
13
    hemp; right?
14
            A
                  Yes.
15
            Q
                  Okay.
16
                       MR. SHEPS: Counsel, do you have
17
                  an extra copy.
18
                       MR. BENJAMIN: Yes.
                                             Sure.
19
            0
                  When it says CBD, do you know what
20
     the asterisk refers to on that label?
21
            Α
                  The cannabidiol.
22
                  Okay. I'm going to submit to you
     that these were pictures of the bottle that were
23
24
    provided by the plaintiff in this case, Douglas
25
     Horn --
```

```
104
 1
                         CINDY ORSER
 2.
            Α
                  Okay.
 3
                  -- as to the product that he took.
                  So is this the same bottle? There
 4
            Α
     are two sides of the bottle?
 5
                  I believe that this is two sides of
 6
 7
     the label that's on the bottle, yes.
 8
            Α
                  Right.
 9
                  Do you know if, as it says in the
10
     article, if Dixie Botanicals revised their labels
     from what you see in front of you to something
11
12
     else?
13
                       MR. SHEPS: Objection.
14
                       MR. BORON: Objection as to
15
                  form.
16
                       MR. SHEPS: The article?
17
                       MR. BENJAMIN: Right. We read
18
                  the last paragraph of the article.
19
            0
                  So do you know, as it says there, if
     they revised their labels?
20
21
                       MR. BORON: Objection as to
22
                  form.
                  No, I can't. I don't have anything
23
            Α
     to compare it to.
24
25
                  Looking at those labels, would it
```

105 1 CINDY ORSER 2 be -- in your opinion, would it be required to disclose THC content on a label for a Medical 3 4 Marijuana product? 5 Yes. Α 6 Have you seen in the past a label Q 7 that said something to the effect that it contains some level of THC? 8 MR. SHEPS: Objection. 9 10 MR. BORON: Objection. 11 On a CBD product? Α 12 On a CBD product, sure. Q 13 I've seen certificates of analysis, 14 so it's not a label on a bottle. 15 I'm only asking as to a label right Q 16 now. 17 Α No. 18 So you have not seen that. 19 Would it be appropriate to disclose the THC level on a label --20 21 MR. BORON: Objection as to 22 form. 23 -- if a product had THC in it? Q 24 MR. BORON: Objection to the 25 form.

```
106
 1
                          CINDY ORSER
 2.
                       MR. SHEPS: Objection.
                  This is 2012, so I suspect they were
 3
            Α
 4
     complying with --
 5
                       MR. SHEPS: Don't guess.
 6
                       THE WITNESS:
                                      Okay.
 7
                  It says other cannabinoids.
            Α
 8
                  Would other cannabinoids include THC?
            0
 9
                  It could.
10
                  Would you agree with me that a
11
     consumer would not know what other cannabinoids
12
     are; right?
13
                       MR. SHEPS: Objection.
14
                       MR. BORON: Objection as to
15
                  form.
16
            Α
                  No, I can't agree with that.
                  A consumer would know what other
17
     cannabinoids are, generally speaking?
18
19
                       MR. BORON: Objection as to
20
                  form.
21
                  The term cannabinoid would include
22
     THC.
23
                  When it says cannabidiol, is that
            Q
     what it's referring to as to other cannabinoids?
24
25
            Α
                  No.
                       The asterisk is at the end of
```

```
107
 1
                         CINDY ORSER
 2.
     CBD.
 3
            0
                  I'm sorry. You're right.
 4
                  That's what CBD is; right?
 5
                  Right.
            Α
 6
                  Have you ever seen a Schedule 1
            Q
 7
    warning on any label with a formulated Medical
     Marijuana product?
 8
 9
            Α
                  No.
10
                  So is that not done in the industry,
11
     it's not put on a label?
12
                       MR. BORON: Objection as to
13
                  form.
14
                  No, not to my knowledge.
            Α
15
                       MR. BENJAMIN: We can put that
16
                  aside for now.
17
                       Let's break for lunch.
18
                       (After a luncheon recess was
19
                  taken, the following was had:)
20
21
              AFTERNOON SESSION
22
    CONTINUED EXAMINATION
23
    BY MR. BENJAMIN:
24
                  We're back on the record.
            Q
25
                  Dr. Orser, do you remember giving a
```

108 1 CINDY ORSER 2. YouTube interview on September 25, 2015 with Todd Denkin? 3 4 I remember giving an interview. 5 didn't know it ended up on YouTube. 6 But as you sit here today, you did 7 sit down with Todd Denkin and answer questions with him? 8 Oh, yeah. 9 10 What was the purpose of that O 11 interview? 12 Α It was with the Natural Marijuana 13 News, which is a sister company of Digipath. 14 Was their relationship to Digipath; Q 15 are they marketing? 16 Α Right. It's, you know, news, marketing, communication. 17 18 So was your interview made 19 specifically for marketing purposes or promotional 20 purposes? 21 Largely. But it was also to provide 22 some information to people who listened to the TNM 23 news. 24 In that interview you describe the Q 25 consulting business as mercenary science. Do you

109 1 CINDY ORSER 2 remember describing the consulting service as 3 mercenary science? 4 I do now that you've said that. What did you mean by that? Well, I mean I've been practicing 6 7 science for a long time, and so there was a big need within the cannabis industry for people who 8 9 understood science to come forward and try to explain various aspects. 10 11 Is that because cannabis testing is Q 12 relatively new? 13 A Yes. 14 And certainly in September of 2015; 15 correct? 16 Α Right. As part of that interview, and just 17 if you can testify as to what you remember, but 18 19 I'm going to tell you what you said in that interview. Tell me if you remember what it was 20 21 and elaborate. 22 One of the questions that Mr. Denkin asked you was about edibles issues and 23 specifically edibles that were "unsanitary issues 24 25 with mislabeling and issues of mistesting."

```
110
 1
                          CINDY ORSER
 2.
                  Do you remember that question at all?
                  Not specifically, but it goes to the
 3
            Α
 4
     general issue of needing standardization.
 5
                  Right. So let's break it down.
 6
                  What issues, I guess starting back
 7
     then when you answered that question, were there
     as to edibles being unsanitary?
 8
 9
                  That really had to do with
10
     adulterants, so we're talking about pesticide
11
     residue, residual solvents and microbial
12
     contamination.
13
                  Those are things that you tested at
14
    Digipath?
15
                  Yes.
16
                  When I say edibles, let's at least
     define for the record what an edible Medical
17
     Marijuana product is.
18
19
                  Can you define that?
20
            Α
                  It's the format that you ingest.
21
            Q
                  "You" meaning a general consumer?
22
            Α
                  Right. A consumer. It's something
23
    you eat.
24
                  Is it fair to say that it's a
            Q
25
     formulated product --
```

```
111
 1
                          CINDY ORSER
 2.
                  Yes.
            Α
                  -- for human consumption; is that a
 3
 4
     fair statement?
 5
            Α
                  Yes.
 6
                  How about with respect to
            0
 7
     mislabeling. When Mr. Denkin asked you about
     mislabeling as to edibles, what is going on with
 8
 9
     mislabeling, at least back then?
10
                  Probably referring to that not all
11
     testing labs are created equally, that not all
12
     labs use validated protocols.
13
                  Is it the labs that put the labeling
14
     on products?
15
                  Well, it's the labs that provide the
16
     Certificate of Analysis where the information
     would be that the company would lift from to put
17
18
     on the label.
19
                  So specifically then, back then what
     were some mislabeling issues with respect to
20
21
     edibles?
22
                  Improper cannabinoid dosing.
            Α
23
                  Anything other than dosing?
            0
                  That and the adulterine issue.
24
            Α
25
            Q
                  Anything with respect to THC content
```

112 1 CINDY ORSER 2 when he asked you that question back in September of 2015? 3 4 Α Right. So that's the potency issue about dosing. Usually it was an inflation of 5 numbers, so claiming something had 800 milligrams 6 7 when it really only had 500. Because inflation of THC content 8 would make a customer buy the product more; is 9 10 that why? 11 MR. BORON: Objection as to 12 form. In general it leads to higher retail 13 Α 14 price. 15 Were there mislabeling issues with Q deflation of THC content on labels? 16 17 Not in my experience. So prior to September, 2015, you had 18 19 not experienced mislabeling with respect to deflation, specifically of THC content? 20 21 Α No. 22 How about to today, fast forward, 23 between over the last two years, have you seen mislabeling from a deflation perspective or 24 reduction? 25

```
113
 1
                          CINDY ORSER
 2.
            Α
                  No.
 3
            0
                  What company who would be selling
 4
     Medical Marijuana formulated products have a
 5
     reason to deflate the THC content in their
 6
     labeling?
 7
                       MR. BORON: Objection as to
                  form.
 8
                  Not that I know of.
 9
10
                  The last issue that he brought up in
11
     the question was mis-testing. What back then did
12
     you mean when you said that edibles -- there were
     edible issues as to mis-testing?
13
14
                  Again, it refers to the contamination
15
     or improper analytical methods being used to
16
     arrive at a potency.
                  Because back then, as is the case
17
     today, there's no standardization of that testing;
18
19
     correct?
20
                       MR. BORON: Objection as to
21
                  form.
22
                  Digipath you built in 2014; correct?
            Q
23
            Α
                  (Nodding)
24
                  Prior let's say in the period of time
            Q
25
     that applies to this case in September, October of
```

114 1 CINDY ORSER 2. 2012, what labs, in your opinion, were competent to do cannabis testing and other product testing? 3 4 MR. SHEPS: Objection. 5 I can't really say, because at that time I wasn't embedded in the industry to have an 6 7 opinion. 8 Were you affiliated with a lab back 9 then that would have been competent or been able 10 to do valid Cannabis testing back then? 11 MR. BORON: Did you say able or 12 unable? 13 I said able. MR. BENJAMIN: 14 MR. BORON: Objection as to 15 form. 16 Α Well, you know, I had ASDx Biosystems. We were a diagnostic lab. We could 17 18 have, but we weren't licensed to do that, and we 19 weren't doing that. 20 In 2012 though, you don't know of any 21 particular named lab that would have been 22 competent to do that? 23 MR. BORON: Objection as to 24 form. 25 Α No.

```
115
 1
                         CINDY ORSER
 2.
                  Is it that you don't know of any or
            O
 3
     there wasn't any?
 4
                       MR. BORON: Objection as to
 5
                  form.
 6
                  There were a handful of labs, but
 7
     again, because I wasn't interacting at a technical
     level in the space, I really can't give an opinion
 8
 9
     as to their competency. But there were labs.
10
     There was Steep Hill in Oakland, CannLabs in
11
     Denver, and the Workshop in Pasadena.
12
                  These were Colorado, California.
            Q
     Where were those located, the ones you mentioned?
13
14
                  CannLabs, Denver. The other two in
            Α
15
     California.
16
            Q
                  Were there any of those labs outside
     of those states that at that point held Medical
17
18
     Marijuana to be legal?
19
            Α
                  Of course. You know, California had,
     I think, from '96 that individuals had access, but
20
21
     it was totally unregulated. Actually until
22
     January 1, it has been unregulated.
23
                  How about New York specifically, has
     New York ever had a testing lab?
24
25
            Α
                  My understanding is that New York
```

116 1 CINDY ORSER 2 appointed their state lab in Albany as the testing lab for cannabis. 3 4 Do you know when that was? Maybe a year and a half ago. 5 6 Something like that. 7 Was that the first in New York, to 0 your knowledge? 8 9 I mean to my knowledge, that's still 10 the situation here. 11 Digipath was not the first lab to 0 12 sort of focus on Cannabis testing; correct? 13 Α Right. 14 But according to the YouTube 15 interview that you gave, Digipath was state of the art in 2014; was it not? 16 17 Yes. 18 In the YouTube interview, you further stated that there needs to be a national 19 discussion as to testing. 20 21 Α Right. You also stated that government 22 should get its head out of the sand because, as 23 you say -- as you also said -- 50 percent, or more 24 25 than 50 percent of the country endorsed the use of

117 1 CINDY ORSER 2 Medical Marijuana. So what did you mean when you said 3 4 that government back then, in September of 2015, 5 should get its head out of the sand? That it should no longer ignore the 6 7 will of the people. 8 Specifically, does that mean rescheduling some of the Schedule 1 substances; is 9 10 that your position? 11 MR. BORON: Objection as to 12 form. 13 I think that that eventually will 14 happen. Would you support that effort? 15 16 Α Yes. Specifically as the THC, do you feel 17 that THC should not be a Schedule 1 drug? 18 I think the whole plant should not be 19 Α 20 a Schedule 1. 21 That includes THC; correct? 22 Α Right. 23 Okay. Why? Give me a reason why you 0 feel it should not be Schedule 1. 24 25 MR. BORON: Objection as to

```
118
 1
                          CINDY ORSER
 2.
                  form.
 3
            Α
                  There's plenty of scientific evidence
 4
     to support the medicinal value of this plant.
 5
                  Have you lobbied Congress or any
 6
     local government people to reschedule anything?
 7
            Α
                  No.
                  You said in that video that Schedule
 8
 9
     1, which lists the controlled substances, and I'm
     quoting you, makes everything extremely difficult.
10
11
                  Can you elaborate on what you meant
12
     when you said that in the interview?
13
                  Lack of interstate transport,
14
     barriers to conducting research, lack of banking
15
     for the industry. Those are the big three.
                  Schedule 1 -- from your answer that
16
            Q
     you just gave me, Schedule 1 makes it illegal to
17
     transport those listed substances across state
18
19
     lines; correct?
20
                       MR. BORON: Objection as to
21
                  form.
22
                       MR. SHEPS: I join.
23
                  Cannabis.
            Α
24
                  Cannabis in general?
            Q
25
            Α
                  Cannabis as used for Medical
```

```
119
 1
                          CINDY ORSER
 2
     Marijuana, yes.
 3
            0
                  Not hemp?
 4
            Α
                  Not hemp.
 5
                  Do you intend to participate in any
 6
     lobby functions in DC as you said in this video?
 7
                  I'm sorry. What did I say?
                  You said that the -- that you
 8
     looked -- strike that.
 9
10
                  That because Schedule 1 made the --
11
     put certain restraints on the industry, that there
12
     has to be lobbying in D.C.
13
                  Do you remember saying that?
14
                  I don't remember that.
            A
15
                  As you sit here today, do you intend
            Q
16
     to be involved in any lobbying?
                  No, I do not.
17
                  You stated in the video also
18
19
     something about ISO 17-025.
20
                  Are you familiar with that?
21
            Α
                  Yes.
22
                  Can you tell me what that is?
            Q
                  That's an international standard, ISO
23
            Α
     is International Standard Organization.
24
25
     example, Digipath -- I am taking them through ISO
```

120

- 1 CINDY ORSER
- 2 17-025 accreditation right now. That is now the
- 3 new norm that states are adopting for cannabis
- 4 testing labs.
- 5 Q Are you able to tell us generally
- 6 what is contained in ISO 17-025 as a requirement?
- 7 A Yes. It embeds a quality management
- 8 system that stipulates how quality testing is
- 9 maintained within the lab. So how many quality
- 10 control samples you have to run in each
- instrument, so it's like every 15 samples has to
- 12 be a quality control sample, whether it's a spiked
- 13 matrix sample or just the reference standards.
- 14 And at the beginning of the day, you
- 15 have to calibrate your instrument with spike
- 16 matrix samples. At the end of the day you have to
- 17 calibrate and make sure that all those samples
- 18 that were run during that period interspersed with
- 19 all the quality control and that the machine
- 20 maintained it's calibration. That's just one
- 21 example.
- 22 Another big component of 17-025 is
- 23 what you do if you fall outside of your calibrated
- 24 compliance, and how you handle those samples and
- 25 how you document -- it's called out of

121 1 CINDY ORSER 2 specification. 3 So everything is tightly controlled. 4 Everyone has their own -- a specific job 5 description. There's a hierarchy of management. It's who is responsible for what. You can't allow 6 7 an SOP to leave the lab. You can't even have one printed. The documents are controlled. 8 9 just --10 Do those things that you mentioned, 11 do those apply specifically to Cannabis testing? 12 I mean 17-025 is a general international standard? 13 A standard for analytical testing 14 labs. 15 Not specifically particular to 16 cannabis testing? It is now. There is a program 17 specifically for cannabis testing labs. 18 19 0 As of when? 20 As of two and a half years ago. Α 21 Q Is CannLabs still in existence, to 22 your knowledge? 23 Α No, it's not. 24 Do you know what happened to it? Q 25 MR. BORON: Objection.

```
122
 1
                          CINDY ORSER
 2.
                  It closed.
            Α
 3
            0
                  It closed. Do you know when?
 4
            Α
                  Maybe 2014. I'm guessing.
 5
     guessing.
 6
                  Around the same time that you started
            Q
 7
     Digipath?
 8
            Α
                  Correct.
                  Do you know why they were closed?
 9
10
                  They made it be known that they were
            Α
11
     for sale. Actually Digipath tried to buy them,
12
     but then we found out Colorado has a law
     prohibiting profit sharing with a public company
13
14
     in the marijuana space, so Digipath couldn't buy
15
     them. Someone else bought them and just shut them
16
     down.
                  Do you know if that company maintains
17
18
     the CannLabs records?
                  Doubtful, but I don't know.
19
            Α
20
                  Is it your understanding the
21
     CannLabs' records were destroyed in that sale?
22
            Α
                  I don't know.
23
                  Do you know anybody at CannLabs or
            Q
     formerly at CannLabs?
24
25
                  I know Jennifer Murray who was the
```

```
123
 1
                          CINDY ORSER
 2.
     CEO.
 3
                  Do you know where she is now?
            Q
 4
            Α
                  She's still in Colorado.
                  Do you know who she works for now?
            Q
 6
                  She sells jewelry.
            Α
 7
                  Do you know the company that bought
            0
     CannLabs?
 8
 9
                  I don't.
10
                  Was Jennifer Murray part of any other
11
     company, to your knowledge, other than CannLabs
12
     before her jewelry company?
13
                  Not to my knowledge.
14
                  Okay. Now let's move on to the easy
     stuff and your report.
15
16
            Α
                  Okay.
                  If you could take a look at what's
17
     been marked Orser C. Do you recognize that
18
     document?
19
20
            Α
                  Yes.
21
                  Describe just for the record what
22
     that document is.
23
                  It's my findings based on the
            Α
     documents that I was provided by Messner Reeves
24
25
     that are listed there.
```

```
124
 1
                          CINDY ORSER
 2.
                  I'm sorry. Quickly some things I
            O
 3
     forgot to ask.
 4
                  Who retained you to provide opinions
 5
     in this case?
                  Messner Reeves.
 6
            Α
 7
                  And how did Messner Reeves come to
            0
     find you?
 8
                        MR. BORON: Objection as to
 9
10
                  form.
11
                  I was contacted by an attorney with
12
     Messner Reeves in Denver.
13
                  Did they contact you directly?
14
            Α
                  Yes.
15
                  What is your fee structure for the
16
     time that you spent on this case?
17
                  $150 an hour.
18
                  Is that for both study and testimony,
     or one or the other?
19
                  Both.
20
            Α
21
                  Are those fees paid directly to you,
22
     or are they paid to Big Sky?
23
                  To Big Sky.
            Α
24
                  Do you have a superior at Big Sky
25
     Biosystems, or are you the last?
```

```
125
 1
                          CINDY ORSER
 2.
                  I'm the only employee.
            Α
                  At Digipath, what is your title at
 3
            0
 4
     Digipath?
                  Chief Science officer.
 5
            Α
 6
                  The two companies know that you're
            Q
 7
     here and giving testimony for this case; correct?
 8
            Α
                  Yes.
 9
                  What percentage of time do you split
10
     between Digipath and Big Sky?
11
                  I would say Digipath is probably 90
            Α
12
     percent of my effort.
13
                  Is your effort with Big Sky more from
14
     an administrative standpoint?
15
            Α
                  You know, as I mentioned before, I
16
     have a few referrals. People want to know my
     opinion.
17
18
                  And you give those opinions under the
19
     Big Sky company --
20
            Α
                  Yes.
21
                  -- as you have done here; correct?
22
            Α
                  Correct.
                  Are you getting paid by Digipath for
23
            0
     the time you're representing Big Sky or vice
24
25
     versa?
```

126 1 CINDY ORSER 2. That's a little confusing. Α I mean 3 all of my income comes through Big Sky Biosystems. 4 It's an S corp. 5 Part of this case, as you may understand, has to do with results from a urine 6 7 drug screen test from the workplace; right? 8 understand that? 9 Α Yes. 10 Have you ever done any work in Q 11 interpreting urine drug screen testings? 12 Α No. 13 You mentioned that you did do some 14 blood test review for a judge in a case or 15 something; correct? 16 Α Yes. But in terms of a urine drug testing, 17 18 the answer is no; right? 19 Α Right. 20 So as you sit here today, you don't 21 believe that you're qualified to render opinions 22 on urine drug testing; correct? 23 MR. BORON: Objection as to 24 form. 25 MR. SHEPS: Objection.

```
127
 1
                         CINDY ORSER
 2.
                  I don't believe I'm qualified.
            Α
 3
                        Do you not believe you're
            Q
                  Yes.
 4
     qualified to render opinions on urine drug
 5
     testing?
 6
                  I do believe I'm qualified.
 7
            0
                  You just mentioned that you don't
     have any experience in your drug test results, so
 8
 9
     what is the basis of your --
10
                       MR. BORON: Actually, she
11
                  testified she's never done any urine
12
                  sampling.
13
                  It's a specimen, a sample.
            Α
                                               It could
14
    be anything. It could be human blood, urine. It
15
     could be hair, it could be a cannabis plant, it
16
     could be an extract. They're all analytical
     samples, and you actually use similar analytical
17
18
     instrumentation. So it's straightforward to
19
     interpret these kind of results.
20
                  So you believe the answer is you are
21
     qualified to render opinions as to urine drug
22
     testing results?
23
            Α
                  Yes.
24
            Q
                  Thank you. Looking at your report
25
     marked Orser C, the first page tells us what you
```

```
128
 1
                         CINDY ORSER
 2.
    reviewed --
            Α
                  Yes.
 4
                  -- to so support your opinions in
 5
     this report; correct?
 6
            Α
                  Yes.
 7
                  Other than those things listed, was
     there anything else that you reviewed to make your
 8
 9
     opinions in this report?
10
                  In addition, I did go into the
11
     literature some.
12
                  I'm sorry. Literature?
            Q
13
                  The literature, scientific
14
     literature.
15
            Q
                  On what specifically then; can you
16
    give me the source?
                  I've looked at some of the references
17
     that Dr. Graham listed.
18
19
                  Okay. Do you remember knowing what
            0
     your opinions were of the sources that he listed?
20
21
                       MR. BORON: Objection as to
22
                  form.
                  It's not so much I had an opinion. I
23
            Α
     just wanted to have the basis of information that
24
25
     he was referencing.
```

129 1 CINDY ORSER 2. What were the topics of the Q 3 literature that you researched? 4 Α For example, he referenced a statute in Canada, and I thought that was curious. 5 looked at that, and I'm still not clear why that 6 7 was referenced. 8 Other than that, was there anything 9 else that you remember looking at outside of 10 what's listed in your report that you would take 11 issue with Dr. Graham's citing? 12 MR. BORON: Objection as to 13 form. 14 MR. SHEPS: Objection. 15 Α I'm not taking issue again. For me 16 as a scientist, I like to have as much information as possible. So if he bothered to list something, 17 18 I thought it was my responsibility to take a look. 19 0 Other than that industrial hemp regulation from Canada, was there anything else 20 21 that caught your eye? 22 A Yeah. He referenced a simulated 23 study suggesting that CBD gets psychologized to 24 THC in a stimulated gastric environment. He also 25 referenced some urinalysis studies of controlled

130 1 CINDY ORSER 2. ingestion of THC. 3 0 With respect to the two pieces that 4 you mentioned, did you have any opinion or issue 5 with his citation of those? 6 MR. BORON: Objection as to 7 form. It led me to find other references on 8 9 the same topic that add some doubt as to his 10 conclusions. 11 Did you ever render a report in 0 12 response to his rebuttal report? 13 Not to his rebuttal, no. 14 As you sit here today, do you have 15 those sources? Do you know what the sources are 16 that would refute what he was saying there? 17 MR. BORON: Objection as to 18 form. 19 MR. SHEPS: Objection. 20 Α I have one of them on my computer. 21 0 Do you know what the name of it is? 22 Α It was actually taking the office aside with regard to the simulated gastric 23 24 environment. It was more of an opinion. 25 Q Well, now you treated that in your

```
131
 1
                         CINDY ORSER
 2
     report; didn't you? You did state --
 3
            Α
                  Yes.
 4
                  -- that THC is not psychologized as
            Q
 5
     you said, in a gastric environment; is that what
 6
     you said in the report?
 7
                       MR. BORON: Objection as to
                         What she said in the report is
 8
 9
                  going to be in the report. It's not
10
                  fair to paraphrase things that are in
11
                  a report.
12
                  So what did you say in your report
            Q
     with respect to the gastric environment?
13
14
                  So it's on page 5 under item 6.
15
     even though Dr. Graham innovates that Mr. Horn
16
     could have experienced conversion of CBD to THC in
     his stomach, there's no evidence that occurred.
17
     Despite Dr. Graham's reference to two publications
18
19
     where a synthetic stomach PH environment was
20
     created and molecular rearrangements were noted
21
     from CBD to THC, there's no evidence from a living
22
     biological system that CBD is chemically
     transformed to THC in his stomach.
23
24
                  Did you have a source that supported
            Q
25
     that?
```

```
132
 1
                         CINDY ORSER
 2.
                  Yes, I did. It's not here. I didn't
            Α
     footnote it.
 3
                  And you don't know it offhand as you
 4
            Q
     sit here today?
 5
 6
            Α
                  I can't.
 7
                  The appendix, let's start with the
     appendix in your report as to the AMSL lab
 8
     details.
 9
10
                  Do you see that appendix?
11
            Α
                  Mm-hmm.
12
                  Now you did not indicate the MSL lab
            Q
     details in your list of documents. You see that;
13
14
     correct? You see the first page. You didn't list
15
     the MSL lab results -- excuse me, lab details.
16
                       MR. BORON: That's not a
17
                  question; right?
18
                       MR. BENJAMIN: It is a question.
                  You didn't list that in the list on
19
            0
     the first page?
20
21
                       MR. BORON: I object to it if
22
                  it's a question.
23
                       MR. SHEPS: I will object as
24
                  well.
25
            Q
                  Do you understand the question?
```

```
133
 1
                          CINDY ORSER
 2.
                  Number 5 is the EMSL lab report.
            Α
 3
            0
                  Right. That's the laboratory report.
 4
            Α
                  Right.
                  I think you pulled Appendix A from
 5
     their website; is that true?
 6
 7
            Α
                  Right. That's why I say these are
     the documents I was provided. I referenced this,
 8
 9
     point number 4 on page 5.
10
                  So did you do that research, the MSL
11
     website, or was that provided to you?
12
            Α
                  I did that.
13
                  That was not listed in your first
14
     listing on the first page.
15
                  Did you review any other websites
16
     other than the EMSL lab details?
17
                  Yes. Of course.
18
                  What else?
            Q
19
                  Many, many things. I went to the
     other testing lab's website.
20
21
                  What other testing lab?
22
            Α
                  The Clinical Reference Lab, Labcorp,
23
     Quest.
24
                  And did anything that you found on
            Q
25
     those websites serve as a basis for your opinion
```

134 1 CINDY ORSER 2. in this report? 3 Α Well, of course. But you did not list them in that 4 0 5 initial listing? 6 These are the documents I was 7 I didn't make a list of everything I went and looked up. 8 9 All right. So other than the lab 10 websites that you went to to get the information, 11 outside of what was provided to you, was there 12 anything else that you based this -- any portion 13 of this report on? 14 I can't give you a detailed answer. 15 0 On the second page of your report, 16 the first full paragraph says that it was -- if you see there, and I'm quoting, it was federally 17 legal to import industrial hemp stalks as they 18 19 typically contain less than the federal guideline limit for THC in imported industrial hemp, which 20 21 is .3 percent. 22 Do you see that part? 23 Mm-hmm. Α 24 The hemp that was provided to Q Okay. 25 Dixie in this case was from the cannabis sativa L

```
135
 1
                         CINDY ORSER
 2
    plant; right?
 3
                       MR. BORON: Objection as to
                  form.
                       MR. SHEPS: Objection.
                  I'm assuming, but I have no way of
 6
 7
     knowing.
 8
                  What makes you assume it was from the
            Q
     cannabis in your plant?
 9
10
                  Because they call it hemp.
11
                  That is the Latin inform of hemp,
            Q
12
     cannabis sativa L?
13
                  Correct.
14
                  Now, again you don't cite any
     specific guideline in this paragraph, but do you
15
     know where that .3 percent comes from?
16
17
                  I say here under the Controlled
18
     Substances Act.
19
                  Do you know what specific provision
     in Controlled Substances Act that .3 shows up?
20
21
                  No. I don't have it listed.
22
                  Okay. So my question is: Does that
            Q
     .3 percent apply to industrial hemp material, or
23
     does it apply to the final process product from
24
25
     the plant material?
```

```
136
 1
                          CINDY ORSER
 2.
                       MR. BORON: Objection as to
 3
                  form.
 4
                       MR. SHEPS: Objection.
 5
                  I believe it applies to both.
            A
                          So what makes you believe that
 6
                  Okay.
            Q
 7
     it applies to the final processed product?
 8
                       MR. BORON: Objection as to
 9
                  form.
10
                  I guess from my experience of how
11
     people are interpreting that and operating.
12
            0
                  The .3 percent is a threshold based
13
     on interpretation in the science field, or is it
14
     something that's specifically listed in the
15
     Controlled Substances Act?
16
                       MR. BORON: Objection as to
17
                  form.
18
                       MR. SHEPS: Objection.
19
                  Can you answer the question?
            0
20
                  I don't know.
            Α
21
            Q
                  You don't know whether the .3 percent
22
     threshold applies to industrial hemp?
23
                  No.
                       That's not the question.
            Α
                       MR. SHEPS: Let him finish.
24
25
            Q
                  You don't know what the .3 percent
```

```
137
 1
                         CINDY ORSER
 2
     applies to of those two products?
 3
                       MR. BORON: Objection as to
 4
                  form.
                       MR. SHEPS: Objection.
                  Previously I said that my opinion is
 6
 7
     it applies to both.
 8
                  And so what is the basis of that
     opinion if it's other than your experience in
 9
10
     Cannabis testing?
11
            Α
                  The confusion here apparently is
12
     what -- what was the guideline from 2012 to 2014
13
     prior to the Farm Bill where it became clarified.
                  Did this .3 percent threshold exist
14
15
     in that time frame from '12 to '14?
16
            Α
                  Well, I'm assuming it did. I did not
     download the controlled substance act and read
17
18
     through it.
19
                  Right. But if the Controlled
20
     Substances Act would have stated specifically
21
     whether it applied to industrial hemp or a final
22
     formulated product or both; right?
23
                       MR. SHEPS: Objection.
24
                       MR. BORON: Objection as to
25
                  form.
```

```
138
 1
                          CINDY ORSER
 2.
                  I can't answer that.
            Α
 3
            0
                  What does the Farm Bill of 2014 say
 4
     with respect to that .3 percent threshold?
 5
                       MR. SHEPS: Objection.
 6
                  That was the guideline given to the
 7
     industry that allowed them to begin cultivating
     industrial hemp in the U.S. and cannabis complicit
 8
 9
     states.
10
                  But again, does it apply in the Farm
11
     Bill now of 2014 to only industrial hemp or the
12
     formulated product?
13
                       MR. SHEPS: Objection.
14
                       MR. BORON: Objection as to
15
                  form.
16
            Α
                  I think somebody should go get a copy
     of that bill instead of beating around the bush.
17
                  I'm asking a very specific question.
18
            Q
19
            Α
                  I know.
20
                  You don't know whether it's stated in
            Q
21
     the bill, at least the 2014 bill; is that right?
22
            Α
                  I don't know.
                  You don't know if between 2012 and
23
            0
     2014 there was anything to indicate that the
24
25
     .3 percent applied to both industrial hemp and a
```

```
139
 1
                          CINDY ORSER
 2
     final formulated product?
 3
                       MR. BORON: Objection as to
                  form.
 4
                       MR. SHEPS: Objection.
                  I can't answer that. Again, I need a
 6
 7
     copy of the document.
 8
                  When you say the .3 percent threshold
 9
     applies to a final processed product, that is
10
     based on your experience in the field between 2012
11
     and 2014?
12
                  That is what people in the industry
            Α
     were doing.
13
14
                  But the answer is yes; right?
            O
15
                       MR. SHEPS: Objection.
16
                       MR. BORON: Objection as to
17
                  form.
18
                  I just really want a yes or no
            Q
19
     answer.
20
                  To what question?
            Α
21
                  Your contention that the .3 percent
     minimum threshold of THC --
22
23
                  It's actually maximum.
            Α
24
                  I'm sorry. You're right.
            Q
25
                  -- maximum threshold of THC applies
```

140 1 CINDY ORSER 2 to the final processed product, such as one that is at issue in this case, is based on your 3 4 experience and not anything that you have seen 5 written --6 MR. SHEPS: Objection --7 MR. BORON: Objection as to form. 8 -- in a bill? 9 10 I know that is the guideline the 11 industry was operating under that allowed them to 12 bring hemp and hemp products across state lines is -- the guideline was below .3 percent. 13 14 certainly what Colorado adopted. It's what Nevada 15 has adopted. 16 Q When you say hemp product, you mean a final processed product for human consumption such 17 as the one at issue? 18 19 Α Yes. 20 Q I mean the THC content would normally 21 differ, would it not, from industrial hemp as it 22 comes in in its raw form, as opposed to a final 23 formulated processed product. Would you agree 24 with me on that? 25 Α Right.

```
141
 1
                         CINDY ORSER
 2.
                  And you're saying that the same
            Q
 3
     standard applies, the .3 percent legal minimum --
 4
     excuse me -- maximum limit applies to both
 5
     industrial hemp and a processed product?
                  I think that's the definition that
 6
 7
     was given of hemp. That's the definition. So if
     you're selling a product and you're labeling it
 8
 9
     hemp, whether it's compacted raw material or
10
     extracted material, if you're marketing it as
11
     hemp, it has to be below .3 percent THC.
12
                  But that's not what the Controlled
13
     Substances Act says; is it?
14
                       MR. BORON: Objection as to
15
                  form.
16
                       MR. SHEPS: Objection.
                  The Controlled Substances Act does
17
            0
    not say with respect to hallucinogenic substances
18
19
     that .3 percent is the legal maximum? That's not
20
     what it says; is it?
21
                       MR. SHEPS: Objection.
22
                       MR. BORON: Objection as to
23
                  form.
24
                  I'm talking about the Farm Bill.
            Α
25
            Q
                  I mean I'm talking about the
```

142 1 CINDY ORSER 2. Controlled Substances Act. I want you to just focus on that as the context of my question. 4 Do you know what limit the Controlled Substances Act allows for THC content in a product 5 so as to fall outside of the definition of a 6 7 controlled substance? 8 MR. SHEPS: Objection. 9 MR. BORON: Objection as to 10 form. 11 MR. SHEPS: Controlled 12 substances as of when? In what time; 13 as compared to what? 14 MR. BENJAMIN: I'm simply asking 15 a general question about the 16 Controller Substances Act. 17 MR. SHEPS: From when? 18 MR. BENJAMIN: At any time. 19 MR. SHEPS: Then I continue my 20 objection. 21 Do you understand the question? 22 Α I think you're trying to draw a distinction. 23 24 MR. BORON: You don't have to 25 tell him what he's trying to do.

```
143
 1
                         CINDY ORSER
 2.
                  Listen to the question and answer it.
 3
                  The .3 percent threshold does not
            Q
 4
     come from the Controlled Substances Act, does it?
 5
                  No, because people worked.
 6
     was not in the dialogue when the Controlled
 7
     Substances Act was written, which was what, in the
     Nixon era.
 8
 9
                  Which would have applied in 2012;
10
     correct?
11
                       MR. BORON: Objection as to
12
                  form.
13
                       MR. SHEPS: Objection.
14
                  Yes or no?
            Q
15
            Α
                  I'm not a lawyer, but I would
16
     suppose.
17
                  I'm not asking you a legal question.
     I'm asking you whether you know.
18
19
            Α
                  I don't know and I don't have a copy
     of it. If you would provide it, that would be
20
21
     great.
22
                  I will. We'll get to it. But I'm
23
     just simply asking you your knowledge as to what
     you put in your report, because it's not clear
24
25
     whether -- you have not made it clear, and I will
```

```
144
 1
                         CINDY ORSER
 2
     tell you specifically.
 3
                  In that first sentence, you don't
 4
    mention formulated products whatsoever. You only
 5
     mention industrial hemp as to the .3 percent
     threshold.
 6
 7
                  Do you see that first sentence?
            Α
                  I do.
 8
 9
                  So did you mean to say in that
     sentence that the .3 percent only applies to
10
11
     industrial hemp?
12
            Α
                  No, I didn't.
13
                  Wouldn't you have included the
14
     language of formulated product, if that's what the
15
     .3 percent applied to?
16
                       MR. BORON: Objection as to
17
                  form.
18
                       MR. SHEPS: Objection.
19
            0
                  Wouldn't you have included that
20
     language?
21
                       MR. BORON: Objection to form.
                       MR. SHEPS:
22
                                    Objection.
23
                  I'm not sure. I'm not sure. I would
            Α
    have to go back to what I was thinking at the time
24
25
     with my argument here.
```

```
145
 1
                         CINDY ORSER
 2.
                  Does it make sense to you that the
            Q
 3
     .3 percent would apply to those two different
 4
     products, one raw and one formulated?
 5
                       MR. SHEPS: Objection.
 6
                       MR. BORON: Objection as to
 7
                  form.
 8
                  Can you answer that question?
 9
                  You have to realize that the hemp --
     raw hemp can have a much lower level of THC than
10
11
     0.3.
           This is the maximum.
12
            0
                  I understand that. But my question
     is does it make sense to you that there would be a
13
14
     federal standard which you acknowledge in your
15
     report, would it make sense to you that it would
16
     apply to both an industrial and raw form of hemp
     and then a formulated product later on?
17
    words, wouldn't there be another threshold number
18
19
     for the formulated product?
20
                       MR. BORON: Objection as to
21
                  form.
22
            Α
                  Not my definition. Hemp is defined
23
     as less than .3 percent.
24
                  So you're deferring to the definition
            Q
25
     of --
```

```
146
 1
                          CINDY ORSER
 2.
            Α
                  Hemp.
                  Right. And that definition would
 3
            0
 4
     correspond to the .3.; correct?
 5
                        MR. BORON: Objection as to
 6
                  form.
 7
                        MR. SHEPS: Objection.
 8
                  (Nodding)
            Α
                  Does the Farm Bill talk about final
 9
10
     processed products?
11
            Α
                  I don't know.
12
                        MR. SHEPS: I will object
13
                  anyway.
14
                  Do you know how many controlled
15
     substances there are in the B act?
16
                        MR. BORON: Objection as to
17
                  form.
18
                        MR. SHEPS: Objection.
19
            Α
                  No.
20
                  Do you know, for instance, what
21
     differentiates a drug between a Schedule 2 to a
     Schedule 4 drug?
22
23
                        MR. BORON: Objection as to
24
                  form.
25
                  I can't recite the specifics.
```

```
147
 1
                          CINDY ORSER
 2.
                  If you generally know, then I'm just
            Q
 3
     looking for that answer.
 4
                       MR. SHEPS: Is that a question?
 5
                       MR. BENJAMIN:
                                      Yes.
                  It has to do with medical benefits
 6
 7
     versus risk to the public.
 8
                  But you do know that THC is
            Q
     classified under Schedule 1; correct?
 9
10
            Α
                  Yes.
11
                  Do you know what criteria are applied
            Q
12
     to make a Schedule 1, make it to that list?
13
                       MR. SHEPS: Objection.
14
                       MR. BORON: Objection.
15
            Α
                  No medical benefit.
16
            Q
                  So the list of Schedule 1 drugs have
     no medical benefit as defined by the act; correct?
17
18
                       MR. SHEPS: Objection.
19
            Α
                  Yes.
20
                  Now if you look again at page 2 under
21
     the brief sequence of events that you stated
22
     there, in number 3 you see there that you talked
     about Mr. Horn's urine drug screen on October 9,
23
24
     2012. Do you see that?
25
            Α
                  Mm-hmm.
```

148 1 CINDY ORSER 2. And you state that, and I'm quoting: Q We are not instructed as to which THC metabolite 3 4 produced that positive result. Do you see that there? 6 Α Yes. 7 You know that he was tested under Department of Transportation requirements; do you 8 know that? 9 10 Α Yes. 11 Do you have a familiarity with DOT 12 drug screenings? 13 I know the sequence of events, and 14 the first level is immunoassays where there can be 15 cross reactivity. 16 Do you know how many drug classes are tested in a DOT screening? 17 It depends if it's the 5 panel or the 18 19 10 panel. 20 Do you know what he did. Q 21 I think it was the 5. 22 So what are those drugs then that were tested if it's a five-panel test? 23 24 It would be on a copy of the report. Α 25 But it's barbiturates, marijuana is one of them.

```
149
 1
                          CINDY ORSER
 2.
     Amphetamines, opioids and benzodiazepines.
     not sure what is the fifth one is.
 4
                  So for that DOT screening, do you
            Q
 5
     know what the cut off concentration is for a
     positive result?
 6
 7
                       MR. BORON: Objection as to
 8
                  form.
                       MR. SHEPS: Objection.
 9
10
                  For marijuana, it's 50 NG per ML.
            Α
11
                  So after that result is obtained, are
            Q
12
     you aware that there's an additional testing to
     confirm that original finding?
13
14
                  Yes.
            Α
15
            0
                  What is the cutoff concentration for
16
     that?
17
                  15 nanogram per mil.
18
                  Do you know what substance is
     specifically tested for in a DOT marijuana
19
20
     confirmation test?
21
                  No, because we're not told.
22
            0
                  Is there a standard that the DOT
23
     tests for?
24
                       MR. BORON: Objection as to
25
                  form.
```

```
150
 1
                          CINDY ORSER
 2.
                       MR. SHEPS: Objection.
 3
            0
                  Do you know the answer to that
 4
     question?
 5
                  Well, they're inconsistent in the
               Some say THC, some say Delta 9, some say
 6
     reports.
 7
     THC metabolites.
 8
                  So they vary for different tests?
 9
                       The information that we were
    provided in the report.
10
11
                  Was not specified; is that your
            0
12
     testimony?
13
            Α
                  Yes.
14
                  But typically in your understanding,
15
     all of those different THC -- is it right to say
16
     compounds or types -- all of those are tested in a
     DOT screening test?
17
18
                  They should be.
19
                  Okay. But to your knowledge, there's
     not -- it's not that just one of them are tested.
20
21
     The ones that you just mentioned.
22
                  I think it's going to depend on the
           I mean the information that I saw, it wasn't
23
24
     consistent.
25
                  Isn't it the carboxy THC that's
```

```
151
 1
                          CINDY ORSER
 2.
     tested in the DOT drug screening?
                       MR. BORON: Objection as to
 3
 4
                  form.
                  The carboxy is what is excreted in
 5
                 So that should be the metabolite they
 6
     the urine.
 7
     test for.
                  So isn't it incorrect for you to say
 8
 9
     that you did not know which one they were testing
10
     for?
11
                       MR. SHEPS: Objection.
12
                       MR. BORON: Objection.
13
                  You have to appreciate that I'm a
14
     very detail-oriented person. So when you look at
15
     the scans they provided, I did not see a scan of
16
     the metabolite.
                  Do you know if the specific
17
    metabolite is stated in DOT regulations as to what
18
19
     the tests are supposed to screen for?
20
                  I did not look up the DOT
            Α
21
     regulations.
22
                  Okay. Look down, please, then at
            Q
23
     number 5.
24
            Α
                  Okay.
25
                  You said there that it was the
```

152 1 CINDY ORSER 2 product that -- the product that he sent to the 3 EMSL lab was not the identical product which he 4 had taken. Do you see that there? 6 Α Yes. 7 So it's fair to say also though, and I will give you the CannLabs Certificates of 8 9 Analysis. 10 Let me give you what's been marked 11 If you can take a look at Orser F. Orser F. 12 MR. BENJAMIN: Off the record. 13 (Discussion held off the 14 record.) 15 I put in front of you now, to mix it Q 16 up a little bit, Exhibit Graham 13 that was marked on December 1, 2017 as opposed to my Orser F, 17 which was out of order. So we're going to use 18 19 Graham Exhibit 13. 20 Dr. Orser, if you can take a look at 21 the Exhibit Graham 13. Could you describe for the 22 record what that is? 23 It's a series of four Certificate of Α Analysis from CannLabs testing Dixie hemp's 500 24

milligram dew drop. Yes. We have no lot numbers,

25

```
153
 1
                          CINDY ORSER
 2
     so I don't really know if they're related.
 3
                  So this product that -- this was one
            Q
     of the things that -- these four pages were what
 4
 5
     you reviewed as a basis for your opinions in your
 6
     report; correct?
 7
            Α
                  Yes.
 8
                  Who provided you these?
                  It was in the Messner Reeves
 9
10
     documents.
11
                  These are not specific as to a lot of
            0
12
     the product?
13
            A
                  Correct.
14
                  So as I think you just stated, these
15
     do not correspond to the product that Mr. Horn
16
     says that he took between October 1 and October 9,
     2012; right?
17
18
                  Correct.
19
                  Would it have been useful to you to
20
     get the Certificates of Analysis that did apply to
21
     that particular product?
22
            Α
                  Yes.
                  Did you ask for those particular
23
     Certificates of Analysis?
24
25
            Α
                  Apparently they don't exist.
```

```
154
 1
                          CINDY ORSER
 2.
                  The ones that were applicable to the
            Q
     product as far back as October 1 do not exist?
 3
 4
                       MR. SHEPS: Objection.
                  I haven't seen them.
            Α
                  Did you ask for them?
 6
            Q
 7
                  I did.
            Α
 8
                  What was the response to when you
     asked for them?
 9
10
                  That they didn't have them.
11
                  Did you have an understanding of
            Q
12
     whether they were destroyed?
13
                  I mean I asked the attorney if they
14
     existed. So I have no opinion.
15
            0
                  What would have been the test date,
16
     to your knowledge, for a product that was taken by
     Mr. Horn as early as October 1, 2012? What would
17
18
    have been in that test field?
19
                       MR. SHEPS: Objection.
20
                  A date prior to October 1?
            Α
21
                  Could it have been any date, or would
     it have been the week before?
22
23
                       MR. SHEPS: Objection.
24
                  Or something else.
            Q
25
                       MR. SHEPS: Objection.
```

```
155
 1
                         CINDY ORSER
 2
                  Well, if you look at the evidence we
            Α
 3
     have here, it looks like they're guaranteeing
 4
     their results for two months. So, therefore, I
     would deduce it should have happened within two
 6
     months.
 7
                  All right. Thank you.
 8
                  So is there any reason, to your
 9
     knowledge, that Certificates of Analysis would not
10
     exist only two weeks prior to the ones you were
11
    provided?
12
                       MR. BORON: Objection as to
13
                  form.
14
                       MR. SHEPS: Objection.
15
            Α
                  I don't know.
16
                  I mean basing your report on
     Certificates of Analysis of a product that was
17
     tested on October 16, 2012, does that make the
18
19
     report irrelevant?
20
                       MR. BORON: Objection as to
21
                  form.
22
                       MR. SHEPS: Objection.
23
            Α
                  No.
24
            Q
                  Why not?
25
            Α
                  This is just one more bit of
```

```
156
 1
                          CINDY ORSER
 2.
     information in this case to take into
     consideration.
 4
                  Looking at these Certificates of
 5
     Analysis, you cannot draw any conclusion, can you,
 6
     for the product that was taken two weeks prior?
 7
                       MR. BORON: Objection as to
                  form.
 8
                       MR. SHEPS: Objection.
 9
10
                  Not definitively.
            Α
11
                  Is it your testimony that the product
12
     that was tested on October 16, 2012 was identical
     to the one that was taken on October 1, 2012?
13
14
                       MR. SHEPS: Objection.
15
                       MR. BORON: Objection as to
16
                  form.
                  I can't say that.
17
18
                  You didn't see anything that would
19
     show you something like that; right?
20
            Α
                  No.
21
                       MR. BORON: Objection as to
22
                  form.
23
                       MR. SHEPS: Objection.
24
                  Did you receive any correspondence
            Q
25
     from anyone stating that these Certificates of
```

157 1 CINDY ORSER 2 Analysis in front of you were a representative -were as to a representative sample of that which 3 4 was on the market on October 1, 2012? 5 MR. SHEPS: Objection. MR. BORON: Objection as to 6 7 form. I don't know. 8 So we don't even know if what was 9 10 tested here on these Certificates of Analysis was 11 even a representative sample; correct? 12 Α Correct. 13 MR. BORON: Objection as to 14 form. 15 MR. SHEPS: Objection. 16 Q I guess the question is then why do you think these would be useful in determining the 17 18 THC content of the Dixie Elixir product at issue 19 here? 20 I found this relevant because it Α 21 demonstrates that Dixie was complying with the 22 requirements in the State of Colorado, that their products are below the .3 percent THC. 23 24 That .3 percent is a Colorado Q 25 threshold?

```
158
                         CINDY ORSER
 1
 2
                  It's Colorado, but it's also the Farm
            Α
     Bill; right? But it is Colorado.
 3
 4
            Q
                  Back in 2012, the Farm Bill didn't
 5
     apply; right?
 6
            Α
                  Right.
 7
                  So back in 2012, was .3 percent a
     state legal limit for THC in Colorado?
 8
 9
                       MR. SHEPS: Objection.
10
                  That was my assumption.
            Α
11
                  We had to get the .3 percent from
12
     somewhere.
                 It's not your testimony that it came
     from the Controlled Substances Act; right?
13
14
                       MR. BORON: Objection as to
15
                  form.
16
                       MR. SHEPS: Objection.
                  I can't clarify that without looking
17
    at the document.
18
19
            0
                  To your knowledge, in 2012, say in
     the month of October of 2012, there was no maximum
20
21
     legal limit for THC in the State of New York;
22
     correct?
23
                       MR. SHEPS: Objection.
24
                  I don't know.
            Α
25
            Q
                  Do you have an idea of whether -- if
```

```
159
 1
                         CINDY ORSER
 2
     the reason for you not having the specific
     Certificates of Analysis had anything to do with
 3
 4
     CannLabs' closure as a business?
                       MR. BORON: Objection to form.
 6
            Α
                  I can't say.
 7
                  As you sit here today, you don't know
     where CannLabs records would be held?
 8
 9
                  I don't know.
10
                  Do you think that Jennifer Murray
11
     would be able to tell me?
12
                       MR. BORON: Objection to the
13
                  form.
14
                  I don't know.
            Α
15
                  Do you have any reason to believe
16
    with your testimony as to the relevance of this
     that this can be relied upon as an accurate
17
    measure of THC in the product of October 1, 2012?
18
19
                       MR. BORON: Objection as to
20
                  form.
21
                       MR. SHEPS: Objection.
22
            Α
                  I can't really say that either.
23
                  Okay. What are batch records as
            Q
     compared to Certificate of Analysis?
24
                  So a batch record would be for
25
```

160 1 CINDY ORSER 2 whatever the batch size is, whatever that unit is. 3 So batch is -- usually the cured flower is a 4 batch, or a bulk extraction is a batch. This is a 5 finished product. 6 Would there have been batch records 0 7 with respect to both the product that was tested on October 16 and the one that was tested back on 8 October 1, 2012? 9 10 That's a question for CannLabs and 11 Dixie. I don't know the answer. 12 Is that something that you would have Q liked to have seen for this report? 13 14 Α Yes. 15 Q Did you ask them for that? 16 MR. BORON: Objection as to form. 17 18 MR. SHEPS: Objection. 19 Α I did not. 20 To clarify, the batch records have to 21 do with the quantity of the sample that's provided 22 to make these Certificates of Analysis; is that a 23 proper statement? 24 It's just upstream of a finished Α 25 product. So, you know, if you're Stouffer and

161 1 CINDY ORSER 2 you're manufacturing frozen lasagna, first you have to cook the noodles, right, and then you have 3 4 to make the sauce. Then you have your final 5 product, which is the lasagna. But batch records don't talk 6 Gotcha. 0 7 about THC, right, to your knowledge? 8 MR. SHEPS: Objection. 9 To my knowledge for them, I don't 10 know. 11 Did you at all find it unusual that 0 12 they gave you these Certificates of Analysis for a different product? 13 14 Well, yes. A 15 MR. BORON: Objection as to 16 form. Looking at the actual face of 17 Okay. these documents, if you would, the first page of 18 19 Graham 13, Graham Exhibit 13, does show what you stated as the maximum legal limit for THC --20 21 excuse me, to .3 percent, 0.3 percent? 22 Α Yes. 23 0 And next to it it says asterisk, undetectable, and the asterisk seems to refer to 24 25 the asterisk explanation underneath. It says:

```
162
 1
                          CINDY ORSER
 2
     Any test value below. 1 percent is considered to
 3
     be undetectable.
 4
                  You see that; right?
            Α
                  Yes.
 6
                  So that particular certificate --
            0
 7
     well, was that -- in that packet before you, do we
     have the exact numbers that -- where it would have
 8
 9
     fallen below the .1 percent later on in the
10
     exhibit, or were there other pages?
11
                       MR. SHEPS: Objection.
12
                       MR. BORON: Objection as to
13
                  form.
14
            A
                  Yes.
15
                  Okay. Where is it that the amount
            Q
16
    per product that's undetectable, in other words,
     that which is below .1 percent, which page does
17
     that correspond to?
18
19
                       MR. BORON: Objection.
20
            Α
                  I think you're asking to look at
    page 2 where it says .05 percent.
21
                  Isn't that a different -- that's the
22
            Q
23
     same test?
24
                  I don't know.
            Α
25
            Q
                  What are the last two pages then?
```

163 1 CINDY ORSER 2. Could you please tell me what the last two pages 3 of the exhibit are, which seem to be a breakdown 4 of the assays. 5 It seems to be a much more extensive 6 Certificate of Analysis where they're looking at 7 six different cannabinoids. So we get the actual assay results. They provide a ratio and then in a 8 9 sample size what the actual content would be. 10 Okay. So please clarify for me, 11 because I do not understand, are these two 12 separate samples tested, or is this one combined sample that was tested? 13 14 MR. BORON: Objection as to 15 form. 16 MR. SHEPS: Objection. I don't have enough information. 17 mean the test ID number is the same for the first 18 19 And the last two, where we have more 20 information, give a slightly different 21 identification. 22 Right. Thank you. There's one that 23 says -2, and there's one that says -5. Is that 24 what you're referring to? 25 MR. BORON: Objection to form.

```
164
 1
                          CINDY ORSER
 2
                  I'm talking about it says CBD
            Α
 3
     1011.rnd-500 milligrams, and then we have one that
 4
     says CBD 0803 mix E2.
 5
                  So that would indicate to you then
     that it was two separate samples?
 6
 7
                       MR. BORON: Objection as to
                  form.
 8
 9
                       MR. SHEPS: Objection.
10
                  Is that a fair statement?
            Q
11
                       MR. BORON: Objection as to
12
                  form.
13
                  I would say so, because you can see
14
     the numbers are different.
15
            Q
                  The numbers are different, so can I
16
     glean from that that there were at least two
     separate samples on that test date?
17
                       MR. BORON: Objection as to
18
19
                  form.
20
            Q
                  So each of the 500-milligram products
21
     that you see in the last two pages that are, as
22
     you said, a more detailed breakdown of each of the
23
     cannabinoids that were tested?
24
                  Right. Only one of them says
            Α
25
     500 milligrams.
```

```
165
 1
                         CINDY ORSER
 2
                         Do we know how many milligrams
            Q
                  Okay.
     the other one is?
 3
 4
            Α
                  No.
 5
                  In each case, in one cannabinoid
     assay, the one with the 500 milligram notation
 6
 7
     there says that the max THC is .04; right?
 8
            Α
                  Mm-hmm.
 9
                  The other one says the max THC is
10
     .05?
11
            Α
                  Yes.
12
                  Do those correspond to the first two
     pages of that exhibit, which looks more like a
13
14
     summary; are you able to tell me that?
                  So we have total CBD of 516. I
15
16
     think -- I think page 1 corresponds with page 4,
     and -- yes, page 1, these -- these are -- the only
17
18
     thing different between these two is this .05.
19
                       MR. BORON: Can you clarify for
20
                  the record when you say between these
21
                  two? Nobody will know what you're
22
                  talking about when they look at the
                  records later. Thank you.
23
24
            Α
                  The first two pages --
25
                       MR. SHEPS: To clarify, if I'm
```

```
166
 1
                          CINDY ORSER
 2.
                  not mistaken, you're saying that
                  there's no discernible difference
 3
 4
                  between page 1 and page 2 of this
                  exhibit in your opinion?
 6
                       THE WITNESS: Correct.
 7
                       MR. SHEPS: Other than this, the
                  indication of the amount per product?
 8
 9
                       THE WITNESS: Right. Right.
                  That's a pretty discernible
10
            Q
11
     difference actually.
12
                  You stated that the .05 max THC, that
13
     would correspond to the summary page, if you will,
14
     or page 2 of this exhibit that shows the .05;
15
     correct?
16
            Α
                  Page 4.
                  Okay. So the one that says
17
     undetectable, in other words, the very first page
18
19
     that days undetectable, does that correspond to
20
     the 500 milligram product that I think is page 3
21
     in the exhibit?
22
                       MR. BORON: Objection as to
23
                  form.
                  I can't make that judgment.
24
            Α
25
            Q
                  So would you agree with me then that
```

```
167
 1
                         CINDY ORSER
 2.
     .05 and .04 are less than .3; correct?
            Α
                  Correct.
 4
                  However, those numbers indicate some
 5
     quantity of THC; right?
                  Detectable, even though right here
 6
 7
     they say if it's below .1, it's not detectable,
     even though they're reporting it later.
 8
 9
                  When you say reporting it later, are
10
     you talking about the .05 percent?
11
                  On the first page it says
12
     undetectable. It defines undetectable as below
     0.1, but yet on the last two pages, they're
13
14
     reporting a value of less than .1. The .04 and
15
     .05 percent.
16
                  So there is, at least with respect to
     the .05, a detectable amount of THC; correct?
17
18
                       MR. BORON: Objection as to
19
                  form.
20
            Α
                  It's being reported.
21
            Q
                  And it doesn't say undetectable
22
     there; right?
23
                  Right.
            Α
24
                  So that is some quantity of THC in at
25
     least these Certificates of Analysis?
```

	168
1	CINDY ORSER
2	A Yes.
3	Q If you could take a look, please, at
4	what's been marked I'm sorry. I did not staple
5	this.
6	This is Orser D. Take a moment, if
7	you would, to take a look at Orser D. I don't
8	have a copy.
9	MR. SHEPS: Can you explain what
10	Exhibit D is, for the record?
11	MR. BENJAMIN: Well, yes.
12	Q First of all, do you recognize what
13	Exhibit D is?
14	A It's the EMSL report.
15	Q Did you review that report?
16	MR. BORON: Just to clarify,
17	it's about 40 pages, and they're not
18	clipped together. Those pages
19	contain data; is that fair to say?
20	MR. BENJAMIN: Sure. Yes.
21	MR. BORON: Do we have reason to
22	think that every one of these pages
23	has something to do with EMSL?
24	THE WITNESS: Yes. This is the
25	instrument they were using. These

```
169
 1
                          CINDY ORSER
                  are the mass spectra. I have no idea
 2.
 3
                  why there are so many of them.
 4
                  Now, item number 5 that you reviewed
            Q
 5
     was that report that's sitting in front of you; is
 6
     that correct?
 7
                       MR. SHEPS:
                                    Objection. Without
 8
                  reviewing every page, it's hard to
 9
                  know for sure if that's exactly the
10
                  report she looked at.
11
                  Do you remember seeing what's in
            Q
12
     front of you?
13
            Α
                  Yes.
14
                  Now with respect to what you said
15
     about EMSL in your report, you said that EMSL
16
     purportedly identified THC in the 100 milligram
     sample to the extent of 170 parts per million.
17
     you see that there? It's paragraph 6 of your
18
19
     report at the bottom, very bottom.
20
            Α
                  Okay.
21
            Q
                  Sorry. Page 2.
22
            Α
                  Yes. Page 3 or 2.
23
            Q
                  Page 2 of your report.
24
            Α
                  Okay. Yes.
                  But that's -- if you look at the
25
            Q
```

170 1 CINDY ORSER 2 exhibit now, even I think the second page, if you 3 look at the second page, that is actually what they found, right, a .17 percent? 4 5 Α .017. 6 .017 percent, which is 170 parts per 7 million; correct? 8 Α Right. 9 That's actually what they found. 10 You stated in your report as to their 11 results that EMSL did not report a value for CBD 12 or any other substance in the exemplar product? 13 Α Correct. 14 So why would that be important? 15 Because it's a CBD product, so if one 16 wants to have confidence in this lab's analysis, they should have provided a value for CBD. 17 If the testing was specific only to 18 THC though, why would you need to test for CBD? 19 20 Point of reference to the product. Α 21 If this is a 100 milligram CBD product, it would give their finding more credibility to reference 22 it to the main ingredient of the elixir. 23 24 But testing for CBD separate from THC Q 25 doesn't tell you anything about THC content; does

```
171
 1
                         CINDY ORSER
 2.
     it?
 3
                  Well, I mean it's like I would never
            Α
 4
     get a CBD product in and not also test for CBD as
 5
     well as THC.
 6
                  But you're not -- you don't have
 7
     consumer customers, do you? You have business
 8
     customers; don't you?
 9
                  And we do testing for patients.
10
                 Okay. But testing for CBD, again,
11
     doesn't tell you anything about THC content;
12
     correct? We can agree on that?
13
                       MR. BORON: Objection as to
14
                  form.
15
                       MR. SHEPS: Objection.
16
            Q
                  Does it?
17
                       MR. BORON: Objection as to
18
                  form.
19
                  Giving a value for CBD without THC
20
     doesn't make sense.
21
                  But does it tell you anything about
22
    THC content?
23
                  CBD alone? No.
            Α
24
                       MR. BORON: Objection as to
25
                  form.
```

172 1 CINDY ORSER 2 Have you stated in your report here Q 3 that the EMSL report with respect to the THC 4 content in at least the 100 milligram product is 5 not reliable? 6 I'm not sure I said it wasn't 7 reliable. I'm just saying because the EMSL lab seems to be an accredited lab. They're listing, 8 9 and that's why I had an appendix, all the tests 10 that they have certificates for. There's nothing 11 here with regard to cannabinoids. 12 But very few labs have anything with Q respect to testing for cannabinoids; correct? 13 14 MR. BORON: Objection as to 15 form. 16 Α I don't know. I mean all of the DOT labs do. 17 Did you look on the website for EMSL 18 19 and search for THC when you looked at this? 20 Α Yes. 21 0 Did you find entries for THC? 22 Α No. 23 Q Would it surprise you to know there are eight separate entries on that website for 24 25 THC?

```
173
 1
                         CINDY ORSER
 2.
                       MR. BORON: Objection as to
 3
                  form.
 4
            Α
                  Can you show that to me?
 5
                  I'm asking you. When did you check
     the EMSL website for THC?
 6
 7
                  It's the date of my report. Sometime
     in September.
 8
 9
                  So sometime in September of this
10
     year, you checked the EMSL website for THC
11
     testing; correct?
12
            Α
                  Yes. They have more than one
     facility, so I went to their corporate website.
13
14
                  Right.
                          That's where you found the
15
     sort of menu listing that's attached as your
16
     Appendix A; correct?
17
                  Yes.
18
                  THC is not listed on there in that
19
     listing; correct?
20
            Α
                  That's correct.
21
                  But you did do a search back then on
22
     the website for THC specifically, and you did not
     find anything; is that your testimony?
23
24
                  For cannabinoids, not THC.
            Α
25
            Q
                  So you punched in CBD as a search?
```

```
174
 1
                          CINDY ORSER
 2.
                       I spelled out cannabinoid.
            Α
                  No.
 3
            0
                  You did not put in THC or what THC
 4
     stands for?
 5
                  Turn to page 3 of your report. You
 6
     did state in maybe one-third down the page that
 7
     what you had in front of you for the certificates
     of analysis were as to "representative Dixie
 8
 9
     Elixirs and Edible Products; right? Do you see
10
     that?
11
            Α
                  Yes.
12
                  But, in fact, we just established
     that those Certificates of Analysis are not
13
14
     associated with the actual product lot that was
15
     used by Mr. Horn?
16
            Α
                  Right. Neither is this.
     (Indicating)
17
18
                       MR. SHEPS: For the record, this
19
                  is Orser D.
20
                  You're indicating the 100 milligram
            Q
21
    product --
22
                  Right.
            Α
23
            0
                  -- that was sent to EMSL?
24
            Α
                  Right.
25
            Q
                  In that listing on page 3 in the
```

175 1 CINDY ORSER 2. middle of the page where you indented the listing for each of the THC contents that were identified 3 4 as to the 500-milligram product, you see here that you -- you lay out a .05 percent, and a .04 5 6 percent and another .04 percent. 7 Do you see those three listings? 8 Α Yes. 9 Is it your testimony that the product that Mr. Horn took would have an identical 10 11 analytical profile to those listing there? 12 Α No. But it's true though that the product 13 14 that Mr. Horn took would likely have been 15 manufactured around the same time as that which 16 was manufactured that corresponds to these Certificates of Analysis; is that correct? 17 18 MR. SHEPS: Objection. 19 Α I can't say. 20 Again on these Certificates of 21 Analysis that are in front of you as Graham 13, 22 there's nothing in these Certificates of Analysis 23 that would indicate to you whether what was tested was industrial hemp, or actually is there anything 24 25 that would indicate to you that this was not

```
176
 1
                         CINDY ORSER
 2
     industrial hemp, that this was the final
 3
     formulated product?
 4
                       MR. BORON: Objection to form.
                       MR. SHEPS: Objection.
 6
                  It says 500 milligrams. It gives a
 7
     sample size. I'm assuming it was the formulated
     product.
 8
 9
                  Were you ever supplied the product
10
     from Dixie or Medical Marijuana or anybody?
11
            Α
                  No.
12
                  Okay. Moving on to page 4 of your
            Q
13
     report.
14
                       MR. SHEPS: Can we take a brief
15
                  break?
16
                       MR. BENJAMIN:
                                       Okay.
17
                       (At this time, a brief recess
18
                  was taken.)
19
                       MR. SHEPS: I just want to
20
                  clarify something for the record.
21
                  Jeff, we had spoken just a moment ago
                  about the exhibit marked as Orser D
22
23
                  which was an internal chain of
24
                  custody with an order ID 281201415
25
                  dated October 29, 2012.
```

	177
1	CINDY ORSER
2	It's my understanding that this
3	was intended to be the same exhibit
4	as was annexed to Dr. Graham's
5	August 29, 2017 report number 6,
6	which was identified there as
7	laboratory data and report for
8	product testing order number
9	281201415 issued by EMSL Analytical
10	Inc. on November 5, 2012.
11	CONTINUED EXAMINATION
12	BY MR. BENJAMIN:
13	Q On page 3 of your report, Dr. Orser,
14	you see where you stated, and I'm quoting, All
15	three of the Dixie Elixir do you see that?
16	A Mm-hmm.
17	Q After they listed Certificates of
18	Analysis, you state, "All three of the Dixie
19	Elixirs and edibles products had an order of
20	magnitude Less than the state and federal limit of
21	.3 percent THC. In fact, the same Dixie X hemp
22	500 milligram due drop contains just .05 percent
23	THC.
24	So in that paragraph you are stating
25	that the .3 percent is a state and federal limit

```
178
 1
                          CINDY ORSER
 2
     together; right?
 3
            Α
                  Yes.
 4
                  What state are you talking about
            Q
 5
     there?
 6
                  Colorado.
 7
                  And because that's the state where we
            0
     believe the product was manufactured; correct?
 8
 9
                  Correct.
10
                  You're saying that there's also a
     federal limit of the .3 percent. You see that
11
12
     there?
13
            Α
                  Yes.
14
                  As you sit here today, you don't know
15
     the source of that maximum threshold for the THC
16
     guideline?
17
                  Not in 2012.
                  But in 2014, it was the Farm Bill?
18
            Q
19
            Α
                  Yes.
20
                  And in that statement, implicit in
21
     that statement, because you haven't stated it
22
     specifically, you're applying that .3 percent
     threshold to the final formulated Dixie product at
23
24
     issue here?
25
            Α
                  Yes.
```

```
179
 1
                          CINDY ORSER
 2.
                  Dixie Elixirs or Medical Marijuana
            Q
    would be in the best position to provide the
 3
 4
     Certificates of Analysis that would apply to the
 5
     product that Mr. Horn took; isn't that correct?
 6
                       MR. BORON: Objection as to
 7
                  form.
                       MR. SHEPS: Objection.
 8
 9
                  I would assume so.
10
                  Could there be anybody else that
11
     would provide those records?
12
                       MR. BORON: Objection as to
13
                  form.
14
                       MR. SHEPS: Objection.
15
            Α
                  I don't know if at the time there was
16
     a requirement to submit the test results to the
17
     State of Colorado.
18
                  If I subpoena the State of Colorado,
19
     do you think that they would have the Certificates
20
     of Analysis?
21
                       MR. BORON: Objection as to
22
                  form.
23
            Α
                  No.
24
                  What would they have with respect to
            Q
25
     this product?
```

```
180
 1
                         CINDY ORSER
 2.
                       MR. SHEPS: Objection.
                       MR. BORON: Objection as to
 3
 4
                  form.
                  I don't know.
 6
                  You just said that some of these
 7
     records would be submitted to the State of
 8
     Colorado.
                       MR. SHEPS: Objection.
 9
10
                  I stated perhaps. In Nevada, all of
            Α
11
     our data goes to the state.
12
            0
                  Data as in Certificates of Analysis?
13
                  Yes.
14
                  For every product tested?
            Q
15
            Α
                  Every, yes. And currently that
16
     happens in Colorado. But in 2012, I doubt it.
                  CannLabs would have been in
17
    possession of it under normal circumstances;
18
     right?
19
20
                       MR. SHEPS: Objection.
21
            Α
                  Yes.
                  Isn't it true that if the records for
22
23
     the specific product that Mr. Horn took starting
24
     on October 1, 2012 showed that there was no
25
     measurable THC, that would completely undermine
```

181 1 CINDY ORSER 2. the foundation of his case; would it not? 3 Α I think there are other variables, 4 but since his premise is that he took a product that had contaminating THC and, therefore, he 5 failed his drug test, but we don't know what else 6 7 Mr. Horn was doing. But because those specific records 8 were not provided by Dixie for Medical Marijuana, 9 can we conclude the actual product that he took 10 contained a measurable quantity of THC, which is 11 12 at least consistent with the levels that are in these Certificates of Analysis? 13 14 MR. SHEPS: Objection. 15 MR. BORON: Objection as to 16 form. 17 No, I can't emphatically say that. Look at then page 4 of the heading 18 19 urine drug test where you talk about his urine 20 drug test. You state there that THC -- do you see 21 where you say is rapidly absorbed during smoking; do you see that part? 22 23 Α Right. But to be clear, this case is not 24 Q

about smoking, it's about oral administration;

25

182 1 CINDY ORSER 2. correct? 3 Right. Α 4 Does the fact that this case involves Q 5 the oral administration, or as you rightly pointed 6 out, sublingual administration of the product, 7 does that change anything that you would say in this paragraph on urine drug testing? 8 9 MR. SHEPS: Objection. 10 Α No. 11 In other words, is the half-life any 0 12 different as you discuss in the latter paragraph 13 here? 14 MR. BORON: Objection as to 15 form. 16 Α Because everyone's metabolism can vary, and we know there are many gene variants 17 that affect how cannabinoids are eliminated from 18 19 the body, it's not an absolute. It's an average. 20 But you define here that the Q 21 half-life of carboxy THC is the time that it takes 22 to exit the body; right? 23 Mm-hmm. Α In other words, half-life is the time 24 Q 25 it takes the body to reduce the concentration by

```
183
 1
                         CINDY ORSER
 2.
     one half; is that what half-life is?
 3
            Α
                  Yes.
 4
                  That's a correct definition.
            Q
            Α
                  How I'm using it in the sentence.
 6
                  Okay. Good enough.
            0
 7
                  But is it true that the time that it
     takes a substance to completely be eliminated from
 8
     the body is actually five times the half-life;
 9
10
     isn't that true?
11
                  It depends upon how long the
            Α
12
     individual has been taking the product.
13
                  Okay. So if a person was taking it
14
     for nine days, for instance --
15
                       MR. BORON: What do you mean by
16
                  it; the Dixie product?
17
                       MR. BENJAMIN:
                                       The Dixie
18
                  product; right.
19
                       MR. BORON: We'll be here all
20
                  day just talking about any old
21
                  product.
22
                       MR. BENJAMIN: That's the only
23
                  product.
24
                  We were never told how much of the
            Α
25
     product he was taking on a daily dose basis.
```

```
184
 1
                         CINDY ORSER
 2.
                  So you wouldn't be able to say with
            Q
 3
     any certainty that it would be five times the
 4
     half-life?
            Α
                  No.
 6
                  Thank you. Let's flip to page 5.
            0
 7
     Your conclusions.
                  You state that no one can opine with
 8
 9
     any degree of scientific confidence that the Dixie
10
     product caused Mr. Horn to fail the DOT urine
11
     test; correct?
12
                       MR. SHEPS: Where are you
13
                  looking?
14
                                       Number 1.
                       MR. BENJAMIN:
15
            Α
                  Yes.
16
                  But is there any reason to believe
     that the test results from the actual product,
17
     hypothetically if they were provided, because they
18
19
     were not, but if they were provided, is there any
     reason to believe they would be inconsistent with
20
21
     those from the representative product that was
22
     provided?
23
                       MR. SHEPS: Objection.
24
                       MR. BORON: Objection to form
25
                  as.
```

```
185
 1
                         CINDY ORSER
 2.
            Α
                  I can't say.
 3
            0
                  Looking at the EMSL report,
 4
     especially the first page. You stated that --
 5
                       MR. SHEPS: Hold on. You mean
 6
                  Exhibit D; right? There were
 7
                  multiple EMSL reports.
                       MR. BENJAMIN: The one that is
 8
 9
                  marked in front of you as Orser D.
10
                       MR. BORON:
                                   Thank you.
11
                  Not only with respect to that first
            0
12
     page, but you mentioned that there's uncertainty
     as to the chain of custody in the product that was
13
14
     supplied to EMSL; right? That's number 3 of your
15
     report; right?
16
            Α
                  Right.
                  When you said there was some
17
     uncertainty in the chain of custody, were you
18
19
     worried that there was a concern with the sample
20
     being a adulterated?
21
                  That's a possibility.
22
                  What were you concerned with when you
     wrote there's considerable uncertainty with the
23
24
     chain of custody aspect?
25
            Α
                  Right. Because of how it came.
                                                    His
```

186 1 CINDY ORSER 2. wife ordered it. It was delivered and there was 3 something about it. His daughter accepted it when 4 it came, and then I don't know how he got it to 5 this lab. I mean there's just a lot of chain of 6 custody issues that were not addressed. 7 So adulteration is one specific issue that you were worried about with all that you just 8 9 testified; right? 10 Α Yes. 11 That someone could have changed the 0 12 sample somehow; correct? 13 Or the sample could have gotten 14 heated up or left in the sun, or, you know --15 Q Or that somehow THC was introduced to 16 the sample? 17 I guess theoretically. 18 Or even removed from the sample. 19 that theoretically possible? 20 Α Probably not. 21 Q It would be kind of tough, but it can 22 happen. 23 Unless you have a chemistry lab. Α 24 We have you. Q 25 But isn't it true though that the THC

187 1 CINDY ORSER 2 content in the EMSL lab at 170 parts per million is, in fact, consistent with the Certificates of 3 4 Analysis for the 500-milligram product that you 5 actually reviewed? 6 MR. SHEPS: Objection to form. 7 MR. BORON: Objection as to form. 8 9 MR. SHEPS: Wasn't it parts per 10 billion? 11 This is actually less than the Α 12 reports we have here. 13 Yes. But wouldn't it be consistent 14 for a hundred milligram product, a Dixie product 15 here, to be Less than a 500-milligram product 16 concentration? 17 MR. BORON: Objection as to 18 form. MR. SHEPS: Objection. 19 20 We don't have the information as to Α 21 the concentration. So a hundred milligrams is an 22 absolute amount, and 500 milligrams is an amount. But what volume were they in, which gives you the 23 24 concentration? We don't know that. 25 So you're saying that the 170 parts

188 1 CINDY ORSER 2 per million in the EMSL sample, setting aside the 3 credibility of the sample that you have called 4 into question, that that result of the 170 parts 5 per million, you cannot say that that's consistent 6 with the 500 parts per million at least that was 7 found in the Certificates of Analysis we provided for you? 8 9 That's correct. 10 MR. BORON: Objection as to 11 form. 12 0 Since the amount of -- looking at simply the amounts of the THC in both the hundred 13 14 milligram in the ESL result and the Certificate of 15 Analysis for the 500-milligram representative 16 product, the relationship being approximately three times list; correct? 17 18 MR. BORON: Objection as to 19 form. 20 MR. SHEPS: Objection. 21 Α We can't really compare them; right? 22 Well, the numbers themselves are three times less in the two different results; 23 24 isn't that correct? 25 MR. BORON: Objection as to

```
189
 1
                         CINDY ORSER
 2.
                  form.
                         What numbers?
 3
                       MR. BENJAMIN: I just stated
 4
                         170 as opposed to 500 in the
                  Certificates of Analysis.
 6
                       MR. BORON: 500 what?
 7
                       MR. BENJAMIN:
                                      500 parts per
                  million.
 8
 9
                       THE WITNESS: .05.
10
                       MR. BENJAMIN: That's the .05
11
                  number.
12
                  Given that, given what evidence of
            Q
     chain of custody are there or adulteration issues
13
14
     is there with that kind of ratio?
15
                       MR. SHEPS: Objection.
16
                       MR. BORON: Objection as to
17
                  form.
                  It's just the comparability. These
18
19
     aren't C of As for the product Mr. Horn took.
20
     We've never seen the product Mr. Horn took.
21
     product he took was never tested. This is another
22
     version of the product at a later date. We don't
23
    know if they changed, how they did anything.
     There's a degree of uncertainty here.
24
25
                  You mentioned -- do you feel that the
```

```
190
 1
                         CINDY ORSER
 2.
     product that he took was never tested?
            Α
                  That's correct.
 4
                  It was never at all tested, to your
            Q
 5
     knowledge?
 6
                  That's correct.
 7
                  Because there would be Certificates
            0
     of Analysis if it was?
 8
 9
                  I mean it was never tested externally
10
     by an independent lab. I don't know if CannLabs
11
     ever tested it. I don't know that.
12
                  You don't know?
            O
13
                  It appears not.
14
                  There's a possibility it was never
15
     tested at all by CannLabs; correct?
16
                       MR. BORON: Objection as to
17
                  form.
                       MR. SHEPS: Objection.
18
19
            Α
                  Right.
20
                  It's your testimony in this case
21
     though that the EMSL did not have the competence
22
     or the certifications adequate to accurately test
     for THC; is that your testimony?
23
24
                  I don't actually know. You were
            Α
25
     indicating that they actually were.
                                           I couldn't
```

191 1 CINDY ORSER 2 find it. It's suspect to me that they didn't 3 bother to give us CBD numbers since it's a CBD 4 product. It's very odd. If you saw CBD on their result, you 5 would have a different conclusion as to their --6 7 as to the credibility of their report? 8 MR. BORON: Objection as to 9 form. 10 Α Yes. 11 Is there a scientific principle or Q 12 foundation that you assert that Mr. Horn should have been aware? And I'm specifically referring 13 14 you to the last paragraph of your paragraph 7 on 15 pages 5 and 6 of your report. Is there a specific scientific 16 principal or foundation that you're saying exists 17 that he should have been aware as to the labeling 18 19 on the Dixie product was not definitive of its 20 contents? 21 MR. SHEPS: Objection. 22 MR. BORON: Objection as to 23 form. Because the label says this product 24 Α 25 contains CBD and other cannabinoids, and there's

192 1 CINDY ORSER 2 no specification given, if I were working in an 3 industry that required random drug testing, I 4 would be concerned. 5 That's a personal opinion; right? That's not based on any scientific foundation or 6 7 source; right? 8 MR. SHEPS: Objection. 9 MR. BORON: Objection as to 10 form. 11 Pulling together what we know, that Α 12 hemp can have up to .3 percent THC. This says it has other cannabinoid. THC is a cannabinoid. 13 14 It's deductive logic to me. 15 Q Your testimony in this case is that 16 the product, at least from the representative samples that you reviewed, had under the .3 17 18 threshold for THC; correct? 19 MR. BORON: Objection as to 20 form. 21 MR. SHEPS: Objection. 22 Α Yes. 23 Without seeing a label as to that 0 effect, as you see in what's in front of you as 24 25 Orser G and H, without seeing a label, there would

```
193
 1
                         CINDY ORSER
 2.
     be no real way for a person to know if there was
 3
     THC in the product; would there?
 4
                       MR. BORON: Objection as to
                  form.
 6
                  I suppose if you're well read you
 7
     would know that that was a potential.
 8
                  So was there somewhere in 2012 that
 9
     he could have found out that the Dixie product had
10
     THC in it just browsing the Internet or anywhere?
11
                       MR. SHEPS: Objection.
12
                       MR. BORON: Objection as to
13
                  form.
14
                  I don't know. I can't speak for him.
            A
15
            Q
                  But you're aware that there is a
16
     specific labeling requirement as to here, THC?
17
                       MR. BORON:
                                   Objection.
18
                  No, I'm not aware of what the
19
     labeling requirements were in 2012 in the State of
20
     Colorado.
21
                  Are there labeling requirements as to
22
     just simply listing active ingredients to
23
     something?
24
                                    Objection.
                       MR. SHEPS:
                  What category of product?
25
            Α
```

```
194
 1
                          CINDY ORSER
 2.
                  How about --
            Q
 3
                  Dietary supplements.
            Α
 4
            0
                  How about the one here, formulated
 5
     Medical Marijuana?
 6
            Α
                  Like I said, I don't know what the
 7
     rules of engagement were in 2012.
                  Was there a general requirement that
 8
            Q
 9
     active ingredients should have been listed on a
10
     label?
11
                       MR. SHEPS: Objection as to
12
                  form.
13
                  I don't know.
14
                  Do you feel as part of your opinion
15
     that any measurable amount of THC should have been
16
     listed under the active ingredients portion of the
     label here?
17
18
                       MR. BORON: Objection as to
19
                  form.
20
                       MR. SHEPS:
                                    Objection.
21
            Α
                  I don't know if it was required.
22
                  But it's your testimony that Mr. Horn
     should have done additional research outside of
23
24
     just simply reviewing the label --
25
                       MR. SHEPS: Objection.
```

```
195
 1
                          CINDY ORSER
 2.
                       MR. BORON: Objection as to
 3
                  form.
 4
            Q
                  -- to find out whether he should not
     be taking this product?
 5
 6
                  I'm just saying that he could have
 7
     learned more about it than he apparently bothered
 8
     to.
 9
                  In fact, your report says he should
     have had the product tested before he took it;
10
11
     right?
12
                       MR. BORON: Objection as to
13
                  form.
14
                       MR. SHEPS: Objection.
                                                 Where
15
                  are you looking, counsel?
16
                       MR. BENJAMIN:
                                       The last sentence
17
                  of the report.
18
                  That's my opinion.
            Α
19
                  Now if you would take a look, please,
            Q
                  Orser E, do you recognize that
20
     at Orser E.
21
     exhibit?
22
                  Yes.
            Α
23
                  What do you recognize that to be?
            Q
24
                  It's an E-mail correspondence with
            Α
25
     someone from EMSL, Scott Vanetten,
```

```
196
 1
                          CINDY ORSER
 2.
     V-A-N-E-T-T-E-N, to Mr. Horn.
 3
                  Do you know Scott Vanetten?
            0
 4
            Α
                  No.
                  Do you know anybody at EMSL?
            Q
 6
            Α
                  No.
 7
                  On the first page of this E-mail
     that's dated November 8, 2012, at the bottom
 8
 9
     anyway --
10
            Α
                  Yes.
11
                  -- do you see there that Mr. Vanetten
12
     is telling Mr. Horn, and I'm quoting, Douglas,
     your report is attached. Since the sample
13
14
     contained THC, I may not be able to return it to
15
     you as per our DEA registration.
16
                  It goes on to say some other things.
     But at the top of the page you see that it says in
17
     a later E-mail, Douglas, we can't return your
18
19
     sample. That's simply what it says; right?
20
            Α
                  Right.
21
                  To your knowledge, are you
22
     knowledgeable about DEA registrations that are
     being referred to here?
23
24
                       MR. BORON: Objection as to
25
                  form.
```

```
197
 1
                          CINDY ORSER
 2.
                  Somewhat.
            Α
 3
            0
                  What do you know about DEA
 4
     registration when it comes to specifically Medical
 5
     Marijuana products?
 6
                       MR. BORON: Objection as to
 7
                  form.
                       MR. SHEPS: Objection.
 8
 9
                  That if you are a facility or a
            Α
10
     testing lab, you have a DEA license, I actually
11
     think that they should not have accepted this
12
     product if they thought it had THC in it.
13
                  They wouldn't have known until
14
     testing it; right?
15
            Α
                  Right.
16
                  Are there ways to find out about THC
     before actually going and testing it?
17
18
                  They were being asked to test it for
19
     THC, so sort of assuming that they're going to be
20
     conducting a THC test.
21
                  How could they have found out if
22
     there was a THC content before going for formal
23
     testing?
24
                  Well, they couldn't have. I'm just
            Α
25
     saying they agreed to do a THC test at a DEA
```

198 1 CINDY ORSER 2 facility. The product wasn't under any DEA 3 control. 4 The product wasn't under DEA control? Q 5 I mean normally if you have a DEA 6 license, you get DEA control of material from 7 another DEA licensed facility. So this was outside of that scope. But then they decided to 8 9 classify it. 10 It's outside of the scope because 11 Mr. Horn doesn't have a DEA registration, is that 12 why you said out the scope? 13 Yes. So it wasn't being shipped from 14 a DEA licensed facility. 15 Q Therefore, that's the same reason why 16 they could not ship it back to him; right? 17 MR. SHEPS: Objection. 18 MR. BORON: Objection as to 19 form. 20 Α Apparently. 21 Turn to the second page. I didn't 22 mean to make you guess. If you look at the second 23 page at the top, there is a follow-up E-mail on November 26, 2012 which states, again from Scott 24 25 Vanetten to James Horn, I'm quoting, our DEA

```
199
 1
                          CINDY ORSER
 2
     registration prohibits us from returning positive
 3
     samples back to the shipper unless they have a DEA
 4
     registration. Legality questions should be
 5
     directed to an attorney.
 6
                  Do you see that?
 7
                        Mm-hmm.
            Α
                  Yes.
 8
                  So it was EMSL's concern that there
 9
     was a positive sample, and they would be violating
10
     their DEA registration were they to ship it;
11
     correct?
12
                       MR. BORON: Objection as to
13
                  form.
14
                       MR. SHEPS: Objection.
15
            Α
                  I quess so.
16
            Q
                  What would be their responsibility
     having found a positive result for THC as to the
17
     sample; what were they supposed to do with that
18
19
     sample?
20
            Α
                  I mean he says right here a legal
21
     question should be directed to an attorney.
22
                  So you don't know; the answer is you
     don't know what he should have done?
23
24
                       MR. SHEPS: Objection.
25
            Α
                  (Nodding)
```

```
200
 1
                          CINDY ORSER
 2.
                  Do you know what specific guideline
            Q
     of either DEA regulations he would be violating if
 3
 4
     he did ship it?
 5
                        MR. SHEPS: Objection.
 6
                        MR. BORON: Objection as to
 7
                  form.
                  I don't know.
 8
                  Just have this, if you could, in
 9
10
     front of you briefly.
11
                  You're familiar with Clinical
12
     Reference Laboratory; correct?
13
                  I'm not familiar with them.
14
                  Do you know who Clinical Reference
15
     Laboratory is?
16
                  I know that they're the lab, the DOT
     lab, that tested his urine.
17
18
                  To your knowledge, are they a lab
     that is qualified or competent to test urine
19
20
     samples?
21
            Α
                  Yes.
22
                  Did you review the Clinical Reference
     Laboratory report?
23
24
            Α
                  Yes.
25
                  I don't know if I need to put it in
```

201 1 CINDY ORSER 2 front of you at the moment, but let's just ask 3 questions about it quickly. 4 You're aware that that lab found a positive test in a urine drug screen analysis for 5 6 THC; correct? 7 Α Yes. Have you ever visited that lab? 8 9 Α No. 10 Do you know any people who work 11 there? 12 Α No. 13 Do you believe the results of that 14 urine drug screening report were accurate? 15 Α I have no reason to question it. 16 Q Have you inspected the test procedures that they used? 17 18 Just from the standpoint that I know 19 they have a primary screen that's immunochemistry, and then a secondary that's GC/MS. 20 21 Do you know what instruments they 22 used? 23 Α Yes. 24 What did they use? Q 25 Α GC/MS.

```
202
 1
                         CINDY ORSER
 2.
                  You can't presume I know that.
            Q
 3
     didn't know that.
 4
                  Can you just contrast immunochemistry
 5
     with the GC spec that you just stated?
 6
                  So immunochemistry is like a strep
 7
     test or a pregnancy. It uses an antibody so it
     has a grosser level of discrimination. That's why
 8
     it's at 15 anagram per mil. And then if that's
 9
     positive, they do a more refined -- which the GC,
10
11
     gas chromitography, mass spectrometry, that's a
12
     much more precise and analytical assay on an
     instrument where you actually fragment the
13
14
    molecules so you see the ion patterns.
15
            Q
                  That second test -- is it right to
16
     say second test?
                  A confirmatory test.
17
                  That confirmatory test is over
18
19
     15 nanograms?
20
            Α
                  Right. That's positive.
21
                  That's positive. So why are the
22
     numbers different from one to the other?
                  It has to do with the level of
23
            Α
     detection, the LOD.
24
25
                  It's not passage of time?
```

203 1 CINDY ORSER 2. It's just one is way more Α No. 3 precise. 4 More rigorous in terms of hardware, Q 5 software, whatever; is that correct? 6 Right, and just the analysis. 7 Do you know what reagents they used to conduct the test? 8 Not specifically. They didn't list 9 10 the antibodies or who manufactured the antibodies. 11 Things like that I don't know, but I certainly 12 know the extraction protocol for TC mas spec. 13 Do you know what reference materials 14 or quality control samples they used? 15 I didn't see those listed. 16 because they're a federally accredited lab, I'm sure they use proper standards. 17 18 Did you ever review instrument 19 calibrations that are performed to do urine drug 20 testing? 21 Α No. 22 Do you know what accreditations the clinical reference lab has to conduct that 23 24 testing? 25 I can't list them, but they're

204 1 CINDY ORSER 2 accredited. They're a federal testing lab for the DOT. So whatever those standards are, I'm sure 3 4 they maintain them. Do you know if the closure of 5 6 CannLabs had anything to do with quality issues? 7 Α No. Do you believe that CannLabs, at 8 9 least with what you saw in the Certificates of Analysis, were results that were reported to be 10 11 accurate or of high quality? 12 Α I don't really have anything to compare it to. 13 14 I mean are those the types of 15 Certificates of Analysis that you produced at 16 Digipath? 17 No. 18 How are they different at Digipath? 19 Α So we test under different mandatory testing requirements. At this time in Colorado, 20 21 that was what -- I don't even think they were 22 required to do this. This is what they chose to 23 test for, which is potency only. This is only potency. 24 At Digipath, we test for all these 25

205 1 CINDY ORSER 2. adulterants as well. So our C of A is two pages 3 and way more data. 4 Okay. I mean do you have any reason Q to believe that what's provided to you here was of 5 6 low quality or not accurate? 7 MR. BORON: Objection as to form. 8 9 MR. SHEPS: Objection. 10 I think this was the state of Α 11 cannabis testing in Colorado at the time. 12 0 Which has improved since 2012 in your experience; correct? 13 14 A Yes. 15 I might have asked this, but to your 16 knowledge, CannLabs' records would not have been transferred at the closure of that company 17 anywhere that you know of? 18 19 MR. SHEPS: Objection. 20 No, I don't know. Α 21 Q For the EMSL report that is in front 22 of you as Exhibit D, did you inspect in there the assay procedures they used for the hundred 23 milligrams product? 24 25 Α Yes.

```
206
 1
                          CINDY ORSER
 2.
                  Did they use proper procedures?
            Q
 3
            Α
                  It appears so.
 4
                  How about what instruments?
            Q
                  They used Agilent GC/MS.
            Α
 6
                  Is that appropriate when testing for
            0
 7
     the THC?
 8
            Α
                  Yes.
 9
                  What about reagents, do you know what
     reagents they used to conduct the test?
10
11
            Α
                  Again, they made an extract in
12
     methanol.
                I mean it's standard.
13
                  They used standard reagents?
14
            Α
                  As far as I can tell, it was
15
     provided.
16
            Q
                  Do you know what reference materials
     or quality control samples they used?
17
18
                  No.
            Α
19
                  Do you know what accreditations they
20
     have to support that test?
21
                  No.
                       As I stated earlier, I couldn't
22
     find, because they are an accredited lab, and they
     have all these documented protocols.
23
24
                  Here's the question.
            Q
25
                  Can a laboratory develop and validate
```

207 1 CINDY ORSER 2 an analytical procedure in-house --3 Α Oh, yes. 4 -- without the approval of an Q accrediting body? 5 6 Α Yes. 7 And specifically with respect to a formulated Medical Marijuana product? 8 9 Right. But to do that requires at 10 least a month. 11 Other than what you've stated in your 0 12 report as to EMSL, could you generally hold them 13 out as a reputable laboratory? 14 MR. BORON: Objection as to 15 form. 16 I don't really know. They must be. They have several locations. 17 18 In your report you did reference the 19 Controlled Substances Act; correct? If I can find 20 it, I will tell you where it was. 21 It's on page 2, the first paragraph. 22 Thank you. The Controlled Substances Q 23 Act, as it pertains to THC, is under the heading 24 of -- let's do this. We've marked this. 25 If you just look at page 2. Do you

```
208
 1
                          CINDY ORSER
 2
     recognize the top front of that page?
 3
                       MR. SHEPS: Just a second.
 4
            0
                  You're aware that THC is classified
 5
     under the Controlled Substances Act as an
     hallucinogenic substance; right?
 6
 7
                       MR. BORON: Objection as to
                  form.
 8
                       MR. SHEPS: Objection.
 9
10
                  It's a hallucinogenic substance? Is
            Q
11
     it?
12
                       MR. BORON: Objection as to
13
                  form.
14
                  Would you call it a hallucinogenic
            Q
15
     substance?
16
            Α
                  No, I wouldn't.
                  Well, it's a psychoactive substance;
17
18
     correct?
19
            Α
                  Right.
20
                  Is that different from a
            Q
21
     hallucinogenic substance?
22
            Α
                  In my mind.
23
                  How is it different?
            0
24
                  I don't think the end user of THC
            Α
25
     experiences hallucinogens -- hallucinations when
```

209 1 CINDY ORSER 2 they take the product. 3 0 What does psychoactive mean as opposed to hallucinogenic? Can you define 4 5 psychoactive? 6 It alters your perception of certain 7 things, but you're not seeing your hot dog talk to you or something. 8 Is it your opinion that THC should 9 10 not be listed in the Controlled Substances Act as 11 a hallucinogenic? 12 MR. BORON: Objection as to 13 form. 14 MR. SHEPS: Objection. 15 Α I don't think it should be Schedule 16 1. What should be under, if anything? 17 Q 18 Schedule 2 or 3. Α Is that because it has medicinal 19 0 20 benefits? 21 Α Yes. 22 So you believe that it should be rescheduled; is that your opinion? 23 24 Α Yes. 25 But if you look at the bottom of

210 1 CINDY ORSER 2 page 2, at the very, very end it says -- well, when defining hallucinogenic substances, it does 3 4 say unless, and I'm quoting the language, unless 5 specifically accepted or unless listed in another schedule, any material, compound mixture or 6 7 preparation which contains any quantity of the following hallucinogenic substances, and then it 8 9 goes on to say a whole bunch of other things. 10 If counsel wants me to read the whole 11 thing, I will, but what it says there is --12 MR. BORON: Off the record. 13 (Discussion held off the 14 record.) 15 Q THC is number 31 if you look on the 16 fourth page of that statute, a copy of the statute. It states clearly that at least in the 17 definition section that I just read to you, it 18 19 says which contains any quantity; right? 20 Α Right. Mm-hmm. 21 It does not say .3 percent there; 22 correct? 23 Right. Α 24 So isn't it true that if something Q

contains any quantity of THC, it's a controlled

25

```
211
 1
                          CINDY ORSER
 2.
     substance?
 3
                       MR. SHEPS: Objection.
 4
                       MR. BORON: Objection as to
                  form.
 6
                  Can you answer?
            Q
 7
                  Well, there are synthetic equivalents
     that are prescription drugs.
 8
                  The statute doesn't make exception in
 9
10
     this paragraph at least for synthetic equivalents.
11
            Α
                  It says right here, synthetic
12
     derivatives.
13
                  So any quantity applies to synthetic
14
     equivalence?
15
                  Yes.
16
            Q
                  Okay. Is the formulated product that
     we're talking about here, Dixie Elixir, is that a
17
     synthetic equivalent?
18
19
                       MR. SHEPS: Objection.
20
                       MR. BORON: Objection as to
21
                  form.
22
            Α
                  No.
23
                  Again, to your knowledge, where is
            Q
     the -- as you say in your report, where is the
24
25
     federal .3 percent coming from?
```

```
212
 1
                          CINDY ORSER
 2.
                       MR. BORON: Objection as to
                  form.
                       MR. SHEPS: Objection.
 5
                  I don't know.
            Α
                  Now industrial hemp itself would meet
 6
 7
     the definition of THC under Schedule 1; would it
 8
     not?
 9
                       MR. BORON: Objection as to
10
                  form.
11
                       MR. SHEPS: Objection.
12
            Q
                  My question is specifically
13
     industrial hemp.
14
            Α
                  Right.
15
                  So it would meet the definition of
16
     THC under Schedule 1; correct?
17
                       MR. SHEPS: Objection.
18
                       MR. BORON: Objection as to
19
                  form.
20
                  Would you agree with me on that?
            Q
21
            Α
                  In 1974?
22
            Q
                  That was when the statute, I think
     you stated, was first enacted, yes.
23
24
                  So in 1974, yes, if there was THC
            Α
     found in the hemp.
25
```

```
213
 1
                         CINDY ORSER
 2.
                  So you're saying that 2012, that's
            Q
 3
     not read properly?
 4
            Α
                  I'm not --
                       MR. SHEPS: Objection.
                       MR. BORON: Objection as to
 6
 7
                  form.
                  -- a student of the code of federal
 8
 9
     regulations, so I just wonder if there haven't
10
     been amendments since 1974, how is it that Dixie
11
     Elixir was able to import industrial hemp in 2012
12
     and make products. How could that have happened
13
     based on this strict interpretation?
14
                  You would agree with me that
     industrial hemp is different from a final
15
16
     formulated product that's out for human
     consumption; right? Do you understand the
17
18
     question?
19
            Α
                  Restate it.
20
                  There is a difference between
21
     industrial hemp and a final formulated Medical
22
     Marijuana product like the Dixie Elixir here?
23
                  There is difference, but if you're
            Α
     deriving it from hemp, and you're argument is that
24
25
     this prohibits the use of industrial hemp, I mean
```

214 1 CINDY ORSER 2. there has to have been amendments to this subsequent to 1974, but before the Farm Act of 3 4 2014 that enabled this to happen. That's all I'm 5 saying. 6 When you're saying "this," you're 7 indicating? 8 The importation of industrial hemp in Α 9 2012 to make a product. 10 You would agree with me though that 11 the EMSL finding of 170 parts per million would be 12 any quantity of THC; correct? 13 Α Yes. 14 And the Certificate of Analysis that 15 was provided to you, which does not apply to the 16 product that Mr. Horn took also found any quantity of THC; correct? 17 18 MR. BORON: Objection as to 19 form. 20 Q Is that correct? 21 They're reporting a value even though 22 they're saying if it's less than .1 percent it's not detectable. So there is an inconsistency in 23 24 that as well. 25 Q Well, there is one that says

```
215
 1
                         CINDY ORSER
 2
     .05 percent?
 3
            Α
                  I know. But on the C of A, it's .05,
 4
     yes.
 5
                  So that's any quantity of THC; is
            Q
 6
     that right?
 7
                       MR. BORON: Objection as to
                  form.
 8
                  We don't know their LOD or their LOQ.
 9
            Α
10
                  What does that mean?
            Q
11
                  We don't know what can lacks --
            Α
12
     because they say that anything below .1 percent is
     undetectable, that would mean that it's below
13
14
     their level of quantitation in their
15
     instrumentation, but yet they go on to report a
16
     level below that after they've already told us
     they can't detect it.
17
18
                  That's in one example. But in
19
     another example they detected .05 percent, which
     is below point .1 percent; correct?
20
21
                  I'm just saying it's inconsistent.
22
                  All right. Are you aware of a legal
23
     exemption for THC --
24
                       MR. SHEPS: Objection.
25
            Q
                  -- to avoid a controlled substance
```

```
216
 1
                          CINDY ORSER
     definition?
 2.
 3
                       MR. SHEPS:
                                    Objection.
 4
            Α
                  No, I'm not.
                  In other words, are you aware of the
     statement that if something is not being offered
 6
 7
     for human consumption, it actually can have THC in
 8
     it?
                  No, I'm not aware of that.
 9
10
                  Going back to the registration that
11
     we talked about, if you remember, we talked about
12
     registration of manufacturers and distributors and
     dispensers of controlled substances; right?
13
14
     were talking about that in the context of EMSL and
15
     their registration; right?
16
            Α
                  Yes.
                  Do you know if in 2012 Dixie or
17
     Medical Marijuana were registered to manufacture,
18
19
     distribute or dispense controlled substances?
20
                                    Objection as to
                       MR. BORON:
21
                  form.
22
            Α
                  I don't know.
23
            0
                  If they weren't registered, they
     wouldn't be able to manufacture, distribute or
24
25
     dispense it; right?
```

```
217
 1
                         CINDY ORSER
 2.
                       MR. SHEPS: Objection.
 3
                       MR. BORON: Objection as to
 4
                  form.
                  They were able to do that.
                  They would lead us to believe that
 6
            0
 7
     they were registered under the guidelines, the
     federal guidelines; correct?
 8
                       MR. SHEPS: Objection.
 9
10
                       MR. BORON: Objection as to
11
                  form.
12
            Α
                  We have this huge time period from
13
     1974 to 2012.
14
                  Are you saying that in 2012 there was
15
     no requirement to be registered to manufacture,
16
     distribute or dispense?
17
                       MR. SHEPS: Objection.
18
                       MR. BORON: Objection to form.
19
            Α
                  I don't know, but it doesn't appear
20
     to be the case. I don't know any cannabis
21
    production lab that has a DEA license.
22
                  You stated earlier though that you're
     not familiar with the labeling and packaging
23
     requirements under federal law; right?
24
25
            Α
                  Right.
```

218 1 CINDY ORSER 2 Have you ever seen a symbol on any Q labeling whatsoever for a controlled substance? 3 4 Α No. I'm going to hand to you what was 5 6 previously marked on May 8 of 2017 at one of the 7 parties' depositions as Exhibit 24. Can you look at that exhibit, please. 8 Have you ever seen that -- I'm 9 actually referring -- that exhibit is a magazine, 10 11 and I'm referring you to page 42 of that magazine. 12 Α Okay. 13 Did you ever see that? 14 A No. 15 This is the first time you've ever 16 seen that magazine ad? 17 Yes. 18 MR. BORON: Objection as to 19 form. 20 Objection. MR. SHEPS: 21 Q This was never provided for you 22 before rendering your report; right? 23 Not that I recall. Α 24 If you just please take a look at the Q 25 first paragraph, it says here that the title of

```
219
 1
                          CINDY ORSER
 2.
     the article is CBD for everyone.
 3
                  Do you see that?
 4
            Α
                  Yes.
                  Using a proprietary extraction
 5
     process and a strain of high CBD hemp grown in a
 6
 7
     secret foreign location, Colorado's Dixie Elixirs
     now offers a new product line called Dixie X which
 8
 9
     contains 0 percent THC; correct?
10
            Α
                  Yes.
11
                  I should continue. And up to
            Q
12
     500 milligrams of CBD. Do you see that?
13
            Α
                  Yes.
14
                  To your knowledge, from what you
15
     reviewed, the launch of these products, and the
16
     one that's pictured here, was around -- on or
     around September 5, 2012?
17
18
                  Okay.
            Α
19
                       MR. SHEPS: Objection.
20
                       MR. BORON: Objection as to
21
                  form.
22
                  You actually put that in your report
     that the launch of the products was September 5,
23
24
     2012.
25
                  Do you remember that date?
```

```
220
 1
                          CINDY ORSER
 2.
            Α
                  No.
 3
            0
                  Paragraph 2 on page 2.
 4
            Α
                  I see it, yes.
 5
                  So you became aware that was the
            Q
 6
     launch of the product; right?
 7
            Α
                  Yes.
                  So after everything that we've
 8
     testified here to today, would you say that that
 9
10
     language is to 0 percent THC is accurate?
11
                        MR. SHEPS: Objection.
12
                        MR. BORON: Objection as to
13
                  form.
14
                  It could be.
            A
15
            Q
                  It could be. Okay.
16
                  Are you convinced that every product
     that was offered by Dixie after it's launch in
17
18
     September, 2012 and over the period of the one
19
     month following that, contained 0 percent THC?
20
                                    Objection.
                        MR. SHEPS:
21
                        MR. BORON: Objection as to
22
                  form.
23
                  I can't emphatically say.
            Α
24
                  The Certificates of Analysis that you
            Q
25
     saw did not contain 0 percent THC, did it?
```

```
221
 1
                         CINDY ORSER
 2.
                       MR. SHEPS: Objection.
                       MR. BORON: Objection as to
 4
                  form.
                  There was a disconnect with them
     reporting a number that they said was below their
 6
 7
     detection limit.
                  You mean with respect to the entry
 8
     that said undetectable; correct?
 9
10
                  They said that if it was Less than
11
     .1 percent, it was undetectable.
12
                  Okay.
                         That was the front page of the
13
     CannLabs Certificate of Analysis.
14
                  But remember we linked this to the
15
     subsequent more detailed analysis.
16
            Q
                  You're referring to the one that says
     max THC at .04 percent?
17
18
            Α
                  Yes.
19
                  So that, we think, corresponds to the
20
     undetectable certificate; right?
21
            Α
                  Right.
22
                  So you would say that if it's
     undetectable, it would be okay for them to say
23
24
     0 percent?
25
                       MR. BORON: Objection as to
```

```
222
 1
                         CINDY ORSER
 2.
                  form.
 3
            Α
                  This is based on their analytical
 4
     capability.
 5
                  I'm simply asking the question as to
 6
     whether you think that in that ad, that statement
 7
     of 0 percent THC is accurate given the Cannabinoid
     assay that at least you saw with respect to that
 8
 9
     sample showing a .04 percent THC value?
10
                       MR. SHEPS: Objection.
11
                       MR. BORON: Objection as to
12
                  form.
                         It's only an alleged ad.
13
                  believe it to be an article.
14
                  Can you answer the question?
            Q
15
            Α
                  There can be variability. There's no
16
     specifications, and they haven't provided their
     methodology. We haven't seen their calibration.
17
18
     I don't even know what instrument they were using
     to drive these numbers.
19
20
                  Should they have put those things in
21
     their article?
22
                       MR. SHEPS: Objection to form.
23
                       MR. BORON: Objection as to
24
                  form.
25
            Α
                  I'm just saying that this is -- it's
```

223 1 CINDY ORSER 2. not so strict. 3 If something says 0 percent THC, does Q 4 that mean it doesn't have any THC in it? 5 MR. SHEPS: Objection. 6 MR. BORON: Objection as to 7 form. No detectable THC. 8 9 What about the other assay that says 10 there is detectable THC of .05? Tell me if I'm 11 reading this wrong, but does it say in one of the 12 CannLabs Certificates of Analysis where it says amount per product, .05 percent, that was not 13 14 undetectable? 15 MR. BORON: Objection. 16 Α On the front page, they say if it is less than .1, it is undetectable, and this was the 17 18 fall of 2012. 19 Right. So you're saying that it's not necessarily -- are you saying that it's not 20 21 necessarily inaccurate to say in an ad 0 percent 22 THC when a sample is undetectable as it states? 23 Yeah. I think it would have been Α 24 more accurate. 25 Q I'm sorry?

```
224
 1
                          CINDY ORSER
 2.
                       MR. SHEPS: I want to note my
 3
                  objection.
                       Can you complete your question?
                       MR. BENJAMIN: What was the last
 6
                  answer?
 7
                        (The requested portion of the
                  record was read back by the
 8
 9
                  reporter.)
10
                  What would have been more accurate?
            Q
11
            Α
                  Say undetectable.
12
                  But you wouldn't have thought that
            Q
13
     they would -- it would have been better disclosure
14
     to list their instruments and all those other
15
     things that you mentioned?
16
                       MR. SHEPS: Objection.
17
                       MR. BORON: Objection as to
18
                  form.
                  In the ad?
19
            Α
20
                  Sure. No. That would be
            Q
21
     inappropriate; right?
22
                       MR. SHEPS: Objection.
23
                  (Nodding)
            Α
24
                  At the bottom, I will refer you at
            Q
25
     the very last, say, 10 lines towards the bottom,
```

225 1 CINDY ORSER 2 do you see the quote from Trip Keber? 3 Α Yes. 4 The quote from Trip Keber, which back Q then he was Dixie's managing director -- by the 5 way, do you know what his position now is and 6 7 where he is? 8 Α No. 9 His quote was, we are importing 10 industrial hemp from outside the U.S. using an FDA 11 import license -- it's below federal guidelines 12 for THC, which is .3 percent -- and we are taking that hemp and extracting the CBD. We have 13 14 meticulously reviewed state and federal statutes, 15 and we do not believe that we are operating in 16 conflict of any federal law as it's related to Dixie X and in parentheses it says (hemp derived) 17 products. 18 19 Is there anything in that statement you find to be false or misleading? 20 21 MR. BORON: Objection as to 22 form. 23 MR. SHEPS: Objection. 24 I don't know the specifics about his Α 25 FDA import license.

```
226
 1
                          CINDY ORSER
 2.
                  Is there anything you believe to be
            Q
 3
     misleading when he says that we, and I'm quoting,
 4
     "We do not believe we are operating in conflict
 5
     with any federal law" --
 6
                       MR. BORON: Objection as to
 7
                  form.
 8
                       MR. SHEPS: Objection.
                  -- "as it's related to the Dixie X
 9
     products"?
10
11
                       MR. BORON: Objection as to
12
                  form.
13
                       MR. SHEPS: Objection.
14
                  Is that a misleading statement?
            Q
15
                       MR. BORON: Objection as to
16
                  form.
17
                       MR. SHEPS: Objection.
18
                  I don't think so.
            Α
19
            Q
                  Why would you not say that that's
     misleading?
20
21
                       MR. BORON: Objection as to
22
                  form.
23
                       MR. SHEPS: Objection.
24
                  He's stating his belief. How can I
            Α
25
     judge his belief.
```

```
227
                         CINDY ORSER
 1
 2.
                  I mean with what you've seen in this
            O
 3
     analysis, would you say that that's inaccurate?
 4
                       MR. SHEPS: Objection.
 5
                       MR. BORON: Objection as to
 6
                  form.
 7
                  What we've seen is their product is
            Α
     is an order of magnitude below .3 percent if we
 8
 9
     believe the analysis that we've been provided by
10
     CannLabs.
11
                  And if that .3 percent, as you
12
     testified and opine, applies to a final consumable
13
     product offered to consumers --
14
                       MR. BORON: Objection as to
15
                  form.
16
            Q
                  -- correct?
17
                       MR. SHEPS: Objection.
18
                       MR. BORON: Objection as to
19
                  form.
20
                       MR. BENJAMIN: Are you objecting
21
                  to his objection?
22
                       MR. SHEPS: No. You asked a
23
                  two-part question. I'm objecting to
24
                  both parts of your question.
25
            Q
                  Can you answer?
```

```
228
 1
                          CINDY ORSER
 2.
                       MR. BORON: Objection as to
 3
                  form.
 4
            Α
                  I'm going to have to hear the
 5
     question again.
 6
                        (The requested portion of the
 7
                  record was read back by the
                  reporter.)
 8
 9
                  Right. That's one premise, if we
10
     believe what we have in the CannLabs for the
11
     analysis.
12
                  But a further premise is whether your
     application of the .3 maximum limit of THC
13
14
     actually applies to a final formulated product;
15
     correct?
16
                  Mm-hmm.
                           Yes.
                  Have you ever seen any YouTube
17
18
     interviews of Trip Keber?
19
                  I have not.
20
                  Are you aware on August 8, 2012, on
21
     American Weed he actually stated that the Dixie
     Elixir product we're talking about right here is
22
23
     THC free?
24
                       MR. BORON: Objection as to
25
                  form.
```

```
229
 1
                          CINDY ORSER
 2.
                       MR. SHEPS: Objection.
 3
                  Are you aware of that?
            Q
 4
            Α
                  I read that in Mr. Horn's deposition.
                  As something that he saw before
 5
 6
     taking the product; correct?
 7
            Α
                  Yes.
 8
                  In fact, on August 23, 2012 in the
     marijuana report was another YouTube interview
 9
10
     where he also stated 0 percent THC and that there
11
    was no THC in his products.
12
                  Did you ever see that?
13
            A
                  No.
14
                  Now in your conversation at the
15
     conference that you mentioned earlier, did he ever
16
     say to you that he was confident that his product
     had no THC?
17
18
            Α
                  No.
19
                  This was previously marked, but it's
     also marked today, to be more confusing, Orser
20
21
     Exhibit I as in indigo.
22
                  Can you take a look at that and just
23
    read it quickly. I mean take your time to read
24
     it.
25
                       MR. SHEPS: Counsel, did you
```

```
230
 1
                          CINDY ORSER
 2.
                  indicate how it had been previously
 3
                  marked?
                                       Right.
 4
                       MR. BENJAMIN:
                                               It was
                  previously marked as a Graham exhibit
 6
                  at Dr. Graham's deposition as
 7
                  number 9 on December 1, 2017.
                  Do you know Tamara Wise? At least
 8
            Q
 9
     this article also purports to be from --
10
            Α
                  It's a post.
11
                  It's a post that was from
            0
12
     beyondthc.com, but also associated with the
     assurances -- the publication that we spoke about
13
14
     before.
15
                       MR. SHEPS: Objection. We don't
16
                  know that it's a publication.
                  This appears to be a post, as you
17
     point out, where this woman purporting to be
18
19
     Tamara Wise who called herself in this post
     formally head of Dixie Science.
20
21
                  Do we know it's a woman?
22
                  The pictures show it.
            Q
23
            Α
                  There's a picture? I didn't see a
    picture.
24
               Okay.
25
            Q
                  We talked to her and she sounds like
```

231 1 CINDY ORSER 2. a woman. 3 So she claims, at least in this post, 4 that was reposted, that she was formerly head of 5 Dixie Science. 6 Do you see that was written there 7 anyway? 8 Right. Α 9 And she says things -- and I won't read the whole thing for purposes of time, but she 10 11 says things like the formulations from the CBD 12 hemp products from Dixie, where she worked, were crude and dirty hemp based. 13 14 I'm quoting that there. 15 Α Right. 16 Perhaps even contains residual solvent and other toxins as the extraction was 17 done in China. 18 19 That's a quote from this. 20 Α Right. 21 She goes on to say it's unfit for 22 human consumption in this article. She says in a sentence, what these companies are doing is 23 critical and dangerous. She says, in fact, MJNAs 24 25 and it says RSHO, is literally just this

232

- 1 CINDY ORSER
- 2 hemp-based dilated in hemp seed oil.
- Now, we don't know offhand if MJMA
- 4 refers to Medical Marijuana. I submit that it
- 5 does. But she's making -- and she says later in
- 6 that sentence, what Dixie Botanicals is offering
- 7 is beyond disturbing. I cannot keep quiet
- 8 anymore.
- 9 I didn't mean to read this whole
- 10 thing. Since I formulated most of these products
- 11 as head of Dixie Science, I feel responsible for
- 12 spreading the truth, and I left for ethical
- 13 reasons.
- 14 That's what she says in there.
- 15 That's a lot that she put out.
- 16 Do you have any opinion as to those
- 17 statements, either one or multiple of them?
- 18 MR. BORON: Objection as to
- 19 form.
- MR. SHEPS: Objection.
- 21 A I mean I don't really have an opinion
- 22 other than it's a good endorsement for why these
- 23 products should be tested for contaminants.
- Q THC is not a contaminant?
- 25 A No.

```
233
 1
                          CINDY ORSER
 2
                  When you say contaminant, you mean?
            Q
                  Pesticides, residual solvents, mouse
 3
            Α
 4
     feces, microbial.
 5
                  All those things that you test at --
            Q
                  Yes. Microbial.
 6
 7
            0
                  Yes?
 8
            Α
                  Yes.
 9
                  So what she's saying here is more of
     a safety or --
10
11
            Α
                  Quality.
12
            Q
                  -- quality issue.
13
                  With reading this, would we be able
14
     to determine whether any of this applies to THC
15
     contents?
16
            Α
                  No.
                  We wouldn't be able to determine it,
17
     or it specifically does not?
18
19
                  It does not.
            Α
20
                  But in your knowledge, the quote
21
     unquote head of science would be able to say these
22
     statements as to the quality of the product?
23
                        MR. BORON: Objection as to
24
                  form.
25
                        MR. SHEPS: Objection.
```

```
234
 1
                          CINDY ORSER
 2.
                  Presumably.
            Α
                  I think this is my last exhibit or
 3
            Q
 4
     line of questioning anyway, Orser L. There's two
 5
     exhibits. That's second to last.
                  If you could take a look, please, at
 6
 7
     Orser L. I'm only going to turn your attention to
 8
     one entry on this.
 9
                       MR. SHEPS: For the record, it's
10
                  marked in a hand annotation on the
11
                  top as November 30, 2012, FAQ, page 1
12
                  of 3.
                         The exhibit is a composite of
13
                  three pages. On the bottom it
14
                  indicates that it's a source from a
15
                  website and dated February 23, 2014.
16
            Q
                  If you could look, please, at the
     second page of that exhibit.
17
18
                  Do you know what a frequently asked
19
     question is?
20
            Α
                  Yes.
21
                  When I say FAQ, I'm just
22
     abbreviating.
23
            Α
                  Yes.
24
                  To your knowledge, what is a
            Q
25
     frequently asked question?
```

235 1 CINDY ORSER 2 It's a question that commonly comes Α 3 up, and so often times people list out those 4 questions with the standard response. 5 Is it informational typically to frequently ask questions, promotional, marketing 6 7 or otherwise? 8 I'm not in marketing. 9 Does Digipath post frequently asked 10 questions? 11 I don't maintain the website. Maybe 12 they do. I don't know. 13 How about Big Sky? Q 14 A No. 15 Q No, they don't. Okay. 16 So just look, please, at the second page, and I'm looking at the one frequently asked 17 question. What is the difference between -- it's 18 four down --19 20 Α Right I see that. -- between CBD from hemp and CBD from 21 22 medical cannabis. Do you see that? 23 Α Right. 24 And it says, quoting, while the two Q 25 plants are botanically related, our hemp contains

236 1 CINDY ORSER 2. no THC and numerous medical studies have shown CBD to have significant potential health effects for a 3 4 variety of ailments ranging from epilepsy to pain 5 management. 6 Α Right. 7 Then lastly it says: Medical cannabis contains THC and may provide relief from 8 9 various ailments, however, with a psychotropic 10 effect. 11 So there too on their frequently 12 asked questions, Dixie has said that there's no THC in their products; is that correct? 13 14 That's what they say, yes. Α 15 0 Shouldn't they have put there that 16 there are, say, for example trace amounts of THC? 17 MR. SHEPS: Objection. 18 MR. BORON: Objection as to 19 form. 20 Α Yeah. I can't comment going back in 21 time what it is they should have said or shouldn't 22 have said. Maybe they should have said there 23 0 that the amount of the THC was undetectable. 24 Is

that what you thought was more appropriate?

25

```
237
 1
                         CINDY ORSER
 2.
                       MR. SHEPS: Objection.
 3
                       MR. BORON: Objection as to
 4
                  form.
                  They could have said below CannLabs'
 5
 6
     detection limit or whatever in-house testing they
 7
     may have done. I would note that this is the same
 8
     person, Tamara Wise, here.
 9
                  I'm sorry?
10
                  The same person is quoted here.
            Α
11
                  Where are you looking? I'm sorry.
            0
12
            Α
                  The second question. The CBD and
     Dixie X synthetic.
13
14
                  Right. Thank you. But at least back
15
     then at that timeline, they have --
16
            Α
                  So it's also interesting if you read
     CBD from hemp legal. I think that's relevant to
17
     this line of questioning today.
18
19
            0
                  Thank you. They're stating there
20
     that it is, quote, legal to consume -- excuse me.
21
     CBD wellness products are legal to consume both
22
     here in the U.S. and many countries abroad;
23
     correct?
24
                       MR. BORON: Objection as to
25
                  form.
```

238 1 CINDY ORSER 2 More importantly what they say is the Α U.S. currently considers industrial hemp products 3 4 to be legal as long as they are derived from 5 industrial hemp and not from any part of the 6 plants characterized -- categorized under the U.S. 7 Controlled Substances Act as marijuana. Okay. So what does that mean with 8 9 respect that .3 percent maximum THC limit? 10 I think what they're saying is 11 Schedule 1 doesn't apply to hemp because it's not 12 listed as marijuana. That's how I interpret what 13 they just said here. 14 But there is a legal limit from THC 15 from hemp; right? That's the .3 percent number; 16 isn't it? 17 MR. BORON: Objection as to 18 form. 19 MR. SHEPS: Objection. 20 This is muddled. Α 21 It is muddled; isn't it? It's 22 confusing because it doesn't talk about the legal 23 limits of THC; correct? 24 MR. BORON: Objection as to 25 form.

```
239
 1
                         CINDY ORSER
 2.
                       MR. SHEPS: I object.
 3
            0
                  Right?
 4
                       MR. BORON: Objection as to
                  form.
 6
                  Right.
                          They don't talk about the
 7
                    They're just talking about an
     cannabinoids.
     extract from hemp not being subject to the
 8
     Controlled Substances Act.
 9
10
                  Knowing what we know now in the
11
     Controlled Substances Act that the language is any
12
     quantity of those substances listed, and number 31
13
     we know is THC.
14
                  Wouldn't it have been better for them
15
     to say in an FAQ before you that's in front of you
16
     that perhaps there is some quantity of THC?
17
                       MR. SHEPS: Objection.
18
                       MR. BORON: Objection as to
19
                  form.
20
                  I don't know.
            Α
21
            Q
                  Thank you for pointing out to me that
22
     first question.
23
                  Why was it necessary, to your
     knowledge, for them to say that Medical Marijuana
24
25
     is a publicly traded company that does not grow,
```

```
240
 1
                          CINDY ORSER
 2
     sell or distribute any substance that violates
     U.S. law?
 4
                       MR. BORON: Objection as to
                  form.
 6
                  Probably because they're a publicly
 7
     traded company.
 8
                  Was that because they did not want to
 9
     be associated with the THC part of the product of
10
    Dixie Elixirs?
11
                       MR. SHEPS: Objection.
12
                       MR. BORON: Objection as to
13
                  form.
14
                  I can't comment.
            Α
15
                  Do you know about the licensing; do
            Q
16
     you know of the company Red Dice Holdings?
17
                  No.
                  Was it Medical Marijuana that held a
18
19
     license, to your knowledge, to manufacture,
20
     distribute --
21
                  I doubt it --
22
                       MR. BORON: Objection as to
23
                  form.
24
                  -- because they're public.
            Α
25
                       MR. SHEPS: Objection.
```

```
241
 1
                          CINDY ORSER
 2
                  Why would the fact that they be
            O
 3
     public --
 4
                  Because Colorado doesn't allow profit
            Α
 5
     sharing as a public entity.
 6
                  It's a profit sharing issue?
            Q
 7
                       MR. SHEPS: Objection.
                       THE WITNESS: I need a break.
 8
                        (At this time, a brief recess
 9
10
                  was taken.)
11
     CONTINUED EXAMINATION
12
     BY MR. BENJAMIN:
13
                  One other question on that exhibit
14
     for the FAQs. If you could look at it again,
15
     Doctor, please.
16
            Α
                  Yes.
                  If you see there that it says do you
17
     test your lab products; do you see that question?
18
19
            Α
                  Yes.
20
                  The bottom of the first page.
            Q
21
            Α
                  Yes.
22
                  It says that all of our products are
     tested multiple times during the manufacturing
23
24
     process --
25
            Α
                  Right.
```

```
242
 1
                          CINDY ORSER
 2.
                  -- using both tradition ISO 17025
            Q
     chemical testing facilities --
 3
 4
            Α
                  Yes.
                  -- as well as cannabinoid testing
 5
 6
     facilities, all of which are based in the U.S.
 7
                  Do you see that?
 8
            Α
                  Yes.
                  We spoke about that before, what ISO
 9
10
     17025 is.
11
            Α
                  Yes.
12
                  Does that suggest that the Dixie
            Q
     product that Mr. Horn took would have been tested
13
14
     multiple sometimes?
15
                       MR. BORON: Objection as to
16
                         Isn't this a screen print from
                  years later?
17
18
                       MR. BENJAMIN:
                                       This is actually
19
                  dated November 30, 2012.
20
                  printed on -- the bottom, you will
21
                  see, is printed on February, 2014.
22
                  This comes from the way back machine,
23
                  which is the web archive dated
24
                  November 30. I know it's written,
25
                  but I can go back and print.
```

```
243
 1
                          CINDY ORSER
 2.
                       You'll see here it's October 19,
                  2012.
 3
 4
                  Anyway, you see what it says there?
            Q
 5
                  Mm-hmm.
            Α
 6
                  Wouldn't that suggest that what
            Q
 7
     they're saying in that FAQ is that the product
     that Mr. Horn would have took would have been
 8
     tested multiple times during the manufacturing
 9
10
     process; right?
11
                       MR. SHEPS: Objection.
12
            Α
                  It's an inference.
13
                  And including testing done by
14
     cannabinoid testing facilities; right?
15
            Α
                  Right.
16
                  You weren't provided any of those
     test results; correct?
17
18
                  That's correct.
19
                  Assuming that statement that they
            0
     followed the ISO 17025 guideline -- what would
20
21
     call ISO 17?
                  Standards.
22
            Α
23
                  Standards. Right.
            0
24
                  So assuming they followed, as they
25
     stated here, that standard, why was the
```

```
244
 1
                          CINDY ORSER
 2
     Certificate of Analysis provided as to the
 3
     representative sample of October 16 and not the
 4
     one that Mr. Horn took?
                       MR. BORON: Objection as to
 6
                  form.
 7
                       MR. SHEPS: Objection.
 8
            Α
                  I can't answer that.
 9
                  Is that statement as an FAQ is
10
     misleading as well; isn't it?
11
                       MR. SHEPS: Objection.
12
                       MR. BORON: Objection as to
13
                  form.
14
            Q
                  Can you answer that?
15
                       MR. BORON: Objection as to
16
                  form.
17
                       MR. SHEPS: Objection.
18
                  Is this from their website?
            Α
19
            0
                  It's from their FAOs.
                  It certainty seems to suggest they do
20
            Α
21
     in-house testing as well as end of product
22
     testing.
23
                  Well, my question was, though, if
            0
     they followed the ISO standards, as you nicely
24
25
     explained to me, there would be a Certificate of
```

```
245
 1
                          CINDY ORSER
 2
     Analysis for the product that Mr. Horn took.
 3
            Α
                  Correct.
 4
                  But as we sit here today, we don't
     know whether the product that Mr. Horn took was
 5
     even tested at all; correct?
 6
 7
                       MR. BORON: Objection as to
                  form.
 8
                       MR. SHEPS: Objection.
 9
10
                  No, I don't know.
            Α
11
                  Then if you can please look at --
            0
12
     have you heard of the company HempMeds PX; does
     that name mean anything to you?
13
14
                  No.
            Α
15
            Q
                  You never heard of that?
16
            Α
                  No.
                  You don't know the relationship
17
     between them and Dixie; right?
18
19
            Α
                  No.
20
                       MR. BORON: Is it a company or a
                  business name?
21
22
                       MR. BENJAMIN: It's, I believe,
23
                  a business name.
24
                  You're not aware of the Dixie brand
            Q
25
     being sold under that name?
```

```
246
                          CINDY ORSER
 1
 2.
            Α
                  No.
 3
                  I'm going to give you my last -- what
            0
 4
     I think is my last exhibit of Orser. It's Orser
 5
    M, as in Mary.
 6
                  If you could take a look at that,
 7
    please, and I will call your attention to --
 8
                       MR. SHEPS: Do you have a copy
 9
                  for counsel.
10
                       MR. BENJAMIN:
                                       I don't think I
11
                  have another one other than the one I
12
                  have to read.
13
                       Do you want to give it to your
14
                  lawyer first before you look at it?
15
                       MR. SHEPS: For the record,
                  again on the bottom right corner
16
                  there's a date and time stamp of
17
                  12/10/2017 at 6:40 p.m. This is an
18
19
                  exhibit that contains five pages, and
20
                  it looks like it is generated from a
21
                  website hempmedspx.com.
22
            0
                  If you could just take a look,
23
     please, at that packet that's been marked as M,
     and let's just look first at frequently asked
24
25
     question number 3.
```

247 1 CINDY ORSER 2. A Okay. 3 It says there: Do cannabidiol and 0 4 (CBD) and other natural hemp-based constituents, 5 show up on a drug test? Under that -- under that FAQ it says most workplace drug screens and tests 6 7 target Delta 9 tetrahydrocannabidiol (THC), and do not detect the presence of CBD or other legal 8 9 natural hemp-based constituents. However, studies have shown that eating hemp foods and oils can, in 10 11 rare cases, cause confirmed positive results when 12 screening urine and blood specimens. 13 A Mm-hmm. 14 The next paragraph says: 15 Accordingly, if you are subject to any form of 16 drug testing, we recommend (as does the United States Military) that you do not ingest our 17 products before consulting with your health care, 18 19 drug screening/testing company or employer. 20 And the last paragraph says: For 21 customers looking to avoid THC, we now offer 22 products that are completely THC free. Contact our customer service team to see if a THC free 23 option is right for you. 24 Okay? You saw that language; right? 25

```
248
 1
                         CINDY ORSER
 2.
            A
                  Yes.
 3
                  Now I submit to you that HempMeds PX
            0
    has been stated to be the company that was
 4
     offering the Dixie Botanicals brand. Pursuant to
 5
 6
     a letter that the Horns actually received.
 7
                  But looking simply at the information
     in that frequently asked question, that is
 8
 9
     actually an FAQ with respect to workplace drug
10
     screening; correct?
11
            Α
                  Yes.
12
                  If I told you that the Dixie
            0
     Botanical FAQs have changed over the years to
13
14
     include that, that language, would that indicate
15
     to you that Dixie, and here HempMeds, was aware
16
     that THC produced -- that THC was in their product
     and produced positive test results?
17
18
                       MR. BORON: Objection to form.
19
                       MR. SHEPS: Objection.
20
            Α
                  I would interpret this that they knew
     there could be some THC, but they were making
21
22
     efforts to have THC free products.
                  As of the date of the posting of
23
            0
     those FAQs; correct?
24
25
                       MR. BORON: Objection as to
```

```
249
 1
                          CINDY ORSER
 2.
                  form.
 3
                       MR. SHEPS: Objection.
 4
            Α
                  I don't know when they were posted.
 5
                  The date that I ran this off was two
 6
     days ago. And I rightly point out that they state
 7
     that we now offer products that are completely THC
     free.
 8
 9
                  Right.
            Α
10
                  So at least in the FAQ here, this is
11
     a full disclosure that they are, as of the date of
12
     this posting, now offering completely THC free;
13
     correct?
14
                       MR. BORON: Objection as to
15
                  form.
16
            Q
                  Correct?
                  I don't know when they posted these
17
18
     FAQs.
19
                  But if a consumer saw that, there
            0
20
    would be every reason to know not to ingest the
21
     product as they even recommend if they're subject
22
     to drug screenings; correct?
23
                       MR. BORON: Objection as to
24
                  form.
25
                       MR. SHEPS: Objection.
```

```
250
 1
 2
                  Is that a fair statement?
            0
 3
                       MR. BORON: Objection as to
 4
                  form.
 5
                       MR. SHEPS: Objection.
 6
                  I don't know.
 7
                  Had you ever reviewed Dixie's FAQs
8
    before today?
9
            Α
              No. No.
10
              Are you aware that Dixie took down
11
     their FAQs all together?
12
                       MR. BORON: Objection as to
13
                  form.
14
                       MR. SHEPS: Objection.
15
           Α
                  No.
16
                       MR. BENJAMIN: Thank you very
17
                  much, Dr. Orser.
                       (Time noted: 4:58 p.m.)
18
19
20
21
22
23
24
25
```

```
251
 1
 2.
                ACKNOWLEDGMENT
 3
 4
    STATE OF NEW YORK )
 5
                          ss:
 6
    COUNTY OF _____)
 7
 8
           I, Dr. Cindy Orser, hereby certify that I
    have read the transcript of my testimony taken
9
10
    under oath in my deposition of December 12, 2017;
11
    that the transcript is a true and complete record
12
    of my testimony, and that the answers on the
13
    record as given by me are true and correct.
14
15
16
17
                                DR. CINDY ORSER
18
19
20
    Subscribed and sworn to before me
21
    This day of
                                2017.
22
23
           (NOTARY PUBLIC)
24
25
```

			252
1			
2		I N D E X	
3	WITNESS:	EXAMINATION BY:	PAGES:
4	Dr. Cindy	Orser	
5		Mr. Benjamin	5
6			
7		EXHIBITS	
8	ORSER:	DESCRIPTION:	PAGES:
9	A	Nursing Article	4
10	В	O'Shaughnessy's 2013 Article	4
11	С	Orser Report	4
12	D	EMSL Lab Report	4
13	E	EMSL Emails	4
14 15	F	CannLabs Certificates of Analysis	4
	G	Label - Ingredients	4
16	Н	Label - Dosage	4
	I	Tamar Wise Post	5
18	J	Magazine Advertisement	5
19	K	Article- Marijuana.com	5
20	L	Dixie FAQs	5
21	M	Hempmedspx FAQs	5
22			
23	N	Section 1308.11 of CSA	5
24	* * *	EXHIBITS RETAINED BY COUNSEL **	* *
25			

				253	
1					
2		ERRATA SHEET	FOR THE TRANSCI	RIPT OF:	
-3			edical Marijuan	na, et al.	
4	Deposition Date: December 12, 2017 Deponent: Dr. Cindy Orser				
5	Place:	805 Third Ave	nue, New York,	New York	
6		C	ORRECTIONS		
7	PG LN			REASON FOR	
8					
9					
10					
11					
++					
12					
13					
14					
15					
16					
17					
1.0					
18					
19					
20					
21					
22	 Date		DR. CINDY	ORSER	
23		ed and sworn			
0.4	This	day of	2017		
24					
25	()	NOTARY PUBLIC)		

	254
1	
2	
3	CERTIFICATE
4	
5	I, Terri Fudens, a stenotype reporter
6	and Notary Public within and for the State of New
7	York, do hereby certify:
8	That the witness whose testimony is
9	hereinbefore set forth was duly sworn by me and
10	that such testimony is a true record of the
11	testimony given by such witness.
12	I further certify that I am not related
13	to any of the parties by blood or marriage, and
14	that I am in no way interested in the outcome of
15	this matter.
16	IN WITNESS WHEREOF, I have hereunto set
17	my hand this 21st day of December, 2017.
18	
19	E. HOTCY.
20	
21	Terri Federis
22	
23	Terri Fudens
24	
25	

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